5.1.6	Compugen Ltd.	
ersion	- 2004	
GenCore v	(c) 1993	
	Copyright	

Compugen Ltd.	
Copyright (c) 1993 - 2004 Compugen Ltd.	OM protein - protein search, using sw model
	o ™o

February 5, 2004, 17:56:29; Search time 13.875 Seconds (without alignments) 1282.249 Million cell updates/sec Run on:

Title: Perfect score:

US-10-045-574B-27 966 1 MRRGPRSLRGRDAPAPTPCV......ATELGSTELVTTXTAGPEQQ 185 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283308 segs, 96168682 residues Searched: 283308 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 76:*
1: pir1:*
2: pir2:*
3: pir3:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	dermal gland prote	glial growth facto	proline-rich myros	immediate-early pr	homeotic protein H	hypothetical prote	actin-depolymerizi	MHC class III hist	CW17R protein - mo	155K transcription	immediate-early pr	immediate-early pr	Bassoon protein -	٠.	tegument protein 6	hypothetical prote	clathrin assembly	clathrin assembly	hypothetical prote	hypothetical prote	major nitrogen reg	hypothetical prote	MHC class III hist	MHC class III hist	hypothetical prote	transcription fact	probable multi-dom	N-chimerin homolog	hypothetical prote
SUMMARIES		SKKLAG	832357	T08148	EDBE23	WJHUZH	T46289		B35098	S52735	EDBEF6	EDBEE1	EDBE22	T42761	B56708	855659	T29018	\$36326	836327	T48814	D70863	S51493	F75518	S37671	836152	H75253	G02919	980	0	914
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	Length	416	422	552	929	356	862	505	2142	548	1487	1487	919	3938	815	3436	801	896	915	1952	592	862	839	1870	1872	347	639	1334	903	. 317
	% Query Match		12.2		12.0	11.9	11.9	11.0	10.9	10.7	10.7	0	0	0	10.5	О	0	10.5	0	0	10.4		10.3		ö	。	10.2	ö	•	10.1
	Score	118.5	118	117.5	116	115	114.5	106.5	105.5	103.5	103.5	102.5	102	102	101.5	101.5	101	101	101	101	100.5	100.5	99.5	99.5	99.5	98.5	98.5	98.5	96	97.5
	Result No.		N	ო	4	S	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29

serine/threonine p RXR-betal isoform	hypothetical prote hypothetical prote	probable multi-uom albumin D-box bind cyclin-dependent k	dřebrin E2 - chick phosphoprotein, sy	Bassoon protein - osteoblast specifi	hypothetical prote regulatory protein	gene LF3 protein - hypothetical prote gene HOX2.8 protei
F75356 184718	C75318 T38236	13/05/ A5558 G02424	A43776 A44825	T42730 F75523	T19291 S18420	S27923 T00367 I59203
40	9119	0 10 10 10 10 10 10 10 10	22	9.0	919	4
57	161	32 32	0 0 6	394 62	31 62	924 756 182
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97.5	96.5	9 9 0 0 0 0 0 0 0 0 0 0	មួយ ស	94.5	0, 0, 4, 4,	93 93.5 93
30	285	₩ ₩ ₩ 4• ₹2 ₹	0 M M	39 40	41 42	4. 4. 4. W 4. 7.

ALIGNMENTS

glial growth factor - human cispecies: Homo sapiens (man) cispecies: Homo sapiens (man) cispecies: Homo sapiens (man) cispecies: Homo sapiens (man) cispecies: O2-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 08-Sep-2002 (cipate: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 08-Sep-2002 (cipate: 03-193 #sequence_revision 10-Nov-1995 #text_change 08-Sep-2002 (cipate: Cipate 1993 #sequence number: 1993 #sequence number: S32357; MUDD:93205115; PMID:8096067

A; Reference number: A38209; MUID: 92219360; PMID: 1313901

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162 VPVPATELGSTELVTTXTAGP 182
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A; Residues: 1-42 <VI2>
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proline-rich myrosinase-binding protein homolog - rape (fragment)

proline-rich myrosinase-binding protein related protein

C;Species: Brassica napus (rape)

C;Date: 21-May-1999 #sequence_revision 21-May-1999 #text_change 08-Oct-1999

C;Accession: T08148

R;Taipalensuu, J.; Falk, A.; Ek, B.; Rask, L.

Eur. J. Biochem. 243, 605-611, 1997

A;Title: Myrosinase-binding proceins are derived from a large wound-inducible and repeting A;Reference number: 216379; MUID:97210758; PMID:9057822

A;Accession: T08148

A;Accession: T08148

A;Accession: T08148

A;Accession: Lober mRNA

A;Acture: preliminary; translated from GB/EMBL/DDBJ

A;Accession: 1-552 < TAI>
A;Accession: Conserterences: EMBL:U99446; NID:91655829; PIDN:AAC08051.1; PID:91655830

A;Experimental source: cv. 20516 of Svalofs Karat; immature seed, 30 days after pollinat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immediate-early protein IER2.9 - bovine herpesvirus 1 (strain Jura)

NyAlternate names: early protein ER2.6; p135 protein

C;Species: bovine herpesvirus 1

C;Species: bovine herpesvirus 1

C;Accession: B38209

E;Accession: B38209

E;Accession: B38209

E;Accession: B38209

C;Accession: B38209

C;Accession: B38209

A;Wirch. UV.; Freefel. C.; Vogt, B.; Vlcek, C.; Paces, V.; Schwyzer, M.

J. Virol. 66, 2763-2772, 1992

A;Title: Immediate-early RNA 2.9 and early RNA 2.6 of bovine herpesvirus 1 are 3' coterm
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                82 APALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPD-GDKDAPEPLDKVIILSPGISD 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -------GGPRPAPGAGPRPSPAP-----GPGPRP 354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ----RLRGASSAEAP--DGDKDAPEPLDKVIILSPGISDATAP-AWPPPGEDP----GT 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -----AAGPRALGPPAEEPLLAANGT 139
                                                                                                                                                                                                                                                                                                                                                                                            --RTALQPQESVGAGAGEAALPL-PGLLFGAPALLG----LALVLALVLVGLVSWRRRQR 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22 AECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVGAGAGEAALPLPGLLFG 81
                                                                                                                                                                                                                                                                                                                                                                                                                           2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             57; Gaps
A;Molecule type: mRNA
A;Residues: 1-422 <MAR>
A;Residues: 1-422 <MAR>
A;Cross-references: GB:L12260; NID:g292047; PIDN:AAB59622.1; PID:g292048
C;Superfamily: human heregulin; EGF homology; immunoglobulin homology
F;363-402/Domain: EGF homology <EGF>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 117.5; DB 2; Length 552;
Pred. No. 0.17;
5; Mismatches 59; Indels 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             141 ATAPAWPPPGEDPGTTP---PG---HSVP--VPATELGSTELVTTKTAGP
                                                                                                                                                          Similarity 28.3%; Score 118; DB 2; Length 422; Similarity 28.3%; Pred. No. 0.12; 4; Conservative 16; Mismatches 51; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GALDRKAAAAAGEAGAWGGDREPP
                                                                                                                                                                                                                                                                                                                                            4 RRAPRR-SGRPGP-----
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28.8%;
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Best Local Similarity 28.8
Matches 49; Conservative
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Matches 5
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A;Cross-references: GB:X78978; NID:g475199; PIDN:CAA55581.1; PID:g475200
R;Giampaolo, A.; Acampora, D.; Zappavigna, V.; Pannese, M.; D'Esposito, M.; Care, A.; F
Differentiation 40, 191-197, 1989
A;Title: Differential expression of human HOX-2 genes along the anterior-posterior axis
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A;Residues: 143-208 <BON>
K;Yieille-Grosjean, I.; Huber, P.
J. Biol. Chem. 270, 4544-4550, 1995
A;Title: Transcription factor GATA-1 regulates human HOXB2 gene expression in erythroid
A;Reference number: A56093; MUID:95181447; PMID:7876223
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A;Accession: S00989
A, Accession: B38209
A, Molecule type: DNA
A, Molecule type: DNA
A, Molecule type: DNA
A, Residues: 1-76 < WIR>
A, Cross-references: GB: M84465, NID: g330769, PIDN: AAA46062.1, PID: g330770
C, Superfamily: herpesvirus immediate-early protein IE110; RING finger homology
C, Keywords: DNA binding, immediate-early protein; transcription regulation, zinc finger F; 9-57, Domain: RING finger homology < RNG>
F; 13-51/Region: zinc finger C3HC4 motif
F; 284-331/Region: acidic
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NyAlterrate names: homeotic protein Hox 2.8; homeotic protein Hox 2H; homeotic protein
C.Species: Homo sapiens (man)
C.Species: Homo sapiens (man)
C.Species: Homo sapiens (man)
C.Species: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 22-Jun-1999
C.Accession: 807942; 805983; 815549; 817042; 844216
R.Acampora, D.; d'Esposito, M.; Faiella, A.; Pannese, M.; Migliaccio, E.; Morelli, F.;
Nucleic Acids Res. 17, 10385-10402, 1989
A.Title: The human HOX gene family.
A.Reference number: 807541; MUID:9098876; PMID:2574852
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A;Residues: 143-202 < KON>
A;Residues: 143-202 < KON>
A;Cross-references: EXBL:X14571; NID:g32034; PIDN:CAA32709.1; PID:g930065
R;Boncinelli, E.; Acampora, D.; Pannese, M.; d'Esposito, M.; Somma, R.; Gaudino, G.;
Genome 31, 745-756, 1989
Genome 31, 745-756, 1989
A;Title: Organization of human class I homeobox genes.
A;Reference number: S15036; MUID:90215256; PMID:2576652
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 409 ARACSPEPR----EEGRGAGLGVAAGETAGWGAGSEEGRGERRARLLGEAGPPRVQARR 463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRGROTPAVOPAPRS----LARRPCGRAAAVSAPPSSRSRGGRRDPRLPAAPRAAPAAO 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             104 RRORRL-RGASSAEAPDGDKDAPEPLDKVIILSPGISDATA-PAWPPPGEDPGTTPPGHS 161
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A; Residues: 1-356 <ACA-
A; Cross-references: Embi:X16665; NID:g32381; PIDN:CAA34655.1; PID:g32382
R; Kongsuwan, K.; Webb, E.; Housiaux, P.; Adams, J.M.
EMBO J. 7, 2131-2138, 1988
                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 30.8%; Pred. No. 0.27;
Matches 62; Conservative 13; Mismatches 82; Indels '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -GLLRTPR-
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ence number: A37042; MUID:89378558; PMID:2570724

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122
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                                                                                                                                                                                                                                                                                                                                                                                                           ---APPAPEFPWMKEKKSAKKPSQ 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             110 SATSPSPAASAVPASGVGSPADGLGLPEAGGGGARRLRTAYTNTQLLELEKBFHFNKYLC 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APALLGLALVLALVLVGLVSW--RRRQRRLRGASSAEAPDGDKDAPEPLDKVI-----I 133
                                                                                                                                                                                                                                                                                                                                                                --- KPXA 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Species: Homo sapiens (man)
C;Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 04-Feb-2000
C;Accession: T46289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 GRDAP--APTPCVPAECFDLLVRHCVACGLLRTPRPKPXA----GASSPAPRTALQPQES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           374 LAVSVPPAVLELLGAGGAPASATPTPALSPGRSLRPHLIPLLLRGAEAPLTDACQQEMCS
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GASSPAPRTALOPOESVGAGAGEAALPLPG-------LL-----FG
                                                                                                                                                                                                                                                                                                                         Gaps
A;Molecule type: DNA
A;Residues: 132-135,'RRL',139-208 <GIA>
A;Cross-references: GB:X16176; NID:g32378; PIDN:CAA34298.1; PID:g930069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ribussterioeft, A.; Lauber, J.; Mewes, H.W.; Gassenhuber, J.; Wiemann, submitted to the Protein Sequence Database, January 2000 A;Reference number: Z23035 A;Accession: T46289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       71;
                                                                                                                                                                         C,Superfamily: homeotic protein Hox B2; homeobox homology C,Keywords: DNA binding; homeobox; nucleus; transcription regulation F;76-96/Region: proline-rich F;76-96/Region: homeobox homology <HOX>
                                                                                                                                                                                                                                                                                                                         88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RLRGASSAEAPDGDKDAPEPLDKVIILSPGISDATAPAWPPPGEDP-----
                                                                                                                                                                                                                                                                                                                                                                    5 PRS-LRGRDAPA----PIPCVPAECFDLLVRHCVACGLLRIPRP------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 862;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       230 ASPGGPSASRAAWEACCHPPEVVPGALSADPRPLAVRLEGAGASSPG 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LSPGISDATAPAW-----PP---PG------EDPGITPPG 159
                                                                                                                                                                                                                                                                                Length 356;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                         Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     486 VAEQQSQQECGGTPPASQSPFHRSLSLEVGGEPLGTSGSGPP 527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A,Cross-references: EMBL:AL137579
A;Experimental source: adult testis; clone DKFZp434A1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypothetical protein DKFZp434A1010.1 - human (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 11.9%; Score 114.5; DB 2; Best Local Similarity 27.0%; Pred. No. 0.43; Matches 60; Conservative 16; Mismatches 75;
                                                                                                                                                                                                                                                                                                                         68;
                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                Score 115; DB 1
Pred, No. 0.17;
                                                                                                                                                                                                                                                                                Query Match
11.9%; Score 115; DB
Best Local Similarity 24.7%; Pred. No. 0.17
Matches 56; Conservative 15; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                           PRSOKKAEDGPALPPPPPPPPPPP
                                                                                                         A,Cross-references: GDB:120665; OMIM:142967
A,Map position: 17q21.3-17q21.3
A;Introns: 131/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-862 <AAA>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Note: DKFZp434A1010.1
                                                                                      A; Gene: GDB: HOXB2
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actin-depolymentizing protein N-WASP, brain - bovine
C;Species: Bos primiganius taurus (cattle)
C;Date: 23-Apr-1998 #sequence_revision 01-May-1998 #text_change 05-Nov-1999
C;Date: 23-Apr-1998 #sequence_revision 01-May-1998 #text_change 05-Nov-1999
C;Date: 23-Apr-1998 #sequence_revision 01-May-1998 #text_change 05-Nov-1999
R;Miki, H.; Miura, K.; Takenawa, T.
EMBO J. 15, 5326-5335, 1996
EMBO J. 15, 5326-5335, 1996
A;Title: N-WASP, a novel actin-depolymerizing protein, regulates the cortical cytoskele
A;Reference number: S72273; MUID:97050838; PMID:8895577
A;Accession: S72273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MHC class III histocompatibility antigen HLA-B-associated protein 2 [imported] - human MHC class Home sapiens (man)
C;Species: Home sapiens (man)
C;Date: 10-Aug-1990 #sequence_revision 06-Nov-1992 #text_change 24-Aug-2001
C;Date: 10-Aug-1990 #sequence_revision 06-Nov-1992 #text_change 24-Aug-2001
C;Accession: 185098
R;Banerji, U; Sands, U; Strominger, U;L.; Spies, T.
Proc. Natl. Acad. Sci. U;S.A. 87, 2374-2378, 1990
A;Title. A gene pair from the human major histocompatibility complex encodes large prol A;Accession: B35098
A;Accession: B35098
                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: EMBL:D67066; NID:g1644231; PIDN:BAA11082.1; PID:d1011742; PID:g1644
A;Experimental source: brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A)Residues: 1-2142 <BAN>
A)Residues: GB:M33509; NID:G179338; PIDN:AAA35585.1; PID:G179339; GB:M31293
A)Rote: the authors translated the codon AGT for residue 97 as Gly
C)Superfemily: collagen alpha 1(IV) chain
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        59 QPQESVGAGAGBAALPLPGGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAP 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301 PPPARGRGAPPPPSRAPTAAPPP-------PPPSRPGVGAPPPPNRMY 343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              547 PTPGVA-AAPTLVS-------GGGSTSSTSSGSFBAPVEPQLPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 PRSLRGRDAP----APTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         119 DGDKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPP-----GHSVPVPA 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         44;
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24.9%; Pred. No. 4.6;
iive 16; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 106.5; D
Pred. No. 1;
4; Mismatches
                                                                                                                                                                                                                                                                                               A;Status: nucleic acid sequence not shown A;Molecule type: mRNA A;Residues: 1-505 <MIX>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      344 PP-------PLPAL----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 23.3%;
Matches 41; Conservative
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immediate-early protein IER2.9 - bovine herpesvirus 1 (strain K22)

NAlternate names early protein ER2.6; pl35 protein
C;Species: bovine herpesvirus 1
C;Date: 31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change 17-Mar-2000
C;Accession: A38209
R;Wirth, U.V.; Fraefel, C.; Vogt, B.; Vlcek, C.; Paces, V.; Schwyzer, M.
J; Virol. 66, 2763-2772, 1992
A;Nitte: Immediate-early RNA 2.9 and early RNA 2.6 of bovine herpesvirus 1 are 3' coter A;Reference number: A38209
A;Accession: A38209
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A; Residues 1.fe76 < WIR>
A; Residues 1.fe76 < WIR>
A; Cross-references: GB: MB4464; NID: 9330767; PIDN: AAA46061.1; PID: 9330768
C; Superfamily: herpesvirus immediate-early protein IE110; RING finger homology
C; Keywords: DNA binding; immediate-early protein; transcription regulation; zinc finger F; 9-57) Domain: RING finger homology < RNG>
F; 13-57) Domain: Zinc finger C3HC4 motif
F; 284-331/Region: acidic
                                                                                                                                                                                                                                                                                                               immediate-early protein - equine herpesvirus 1
C;Species: equine herpesvirus 1
C;Date: 30-Jun-1990 #sequence_revision 30-Jun-1990 #text_change 16-Jul-1999
C;Accession: A33764
R;Grundy, F.J.; Baumann, R.P.; O'Callaghan, D.J.
A;Torle: DNA sequence and comparative analyses of the equine herpesvirus type 1 immedia A;Reference number: A33764; MUD:89370304; PMID:2549711
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70 BAALPLPGILFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKDAPEPLD 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          101 QPASPAP----SPA-PGLAAMLKWVHSSVAPGNGR----RATGSSSPGGGDADPVALD 150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               57 DAPLSTPVVVIPPP-----SPAPEPRGGKAKRSPSAAGSGGPPTPAAA 100
                                                       101 OPASPAP----SPA-PGLAAMLKAVHSSVAPGNGR----RATGSSSPGGGDAADPVALD 150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        69
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70 EAALPLPGILFGAPALLGLALVLALVLVGLVSWRRRORRLRGASSAEAPDGDKDAPEPLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12 DAPAPTPCV--PAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVGAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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A;Residues: 1-1487 <GRU>
A;Crosa-references: GB-104366; NID:g330910; PIDN:AAA46089.1; PID:g330911
C;Superfamily: herpesvirus immediate-early protein IE175
C;Keywords: DNA binding; early protein; transcription regulation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       130 KVIILSPGISDA-TAPAWPPPGEDPGTTPPGHSVPVP 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -----SDTETCPGSPQP-EFPSSASPGGGSPAP 177
                                                                                                                           130 KVIILSPGISDA-TAPAWPPPGEDPGTTPPGHSVPVP 165
                                                                                                                                                                                         ------SDTETCPGSPQP-EFPSSASPGGSPAP 177
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10.6%; Score 102.5; D
Best Local Similarity 28.7%; Pred. No. 5.5;
Matches 45; Conservative 11; Mismatches
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Best Local Similarity 29.9%
Matches 60; Conservative
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                                                                                                                                                                                                                                                              R;Schmitt-Wrede, H.P.; Wrehlke, C.; Qiao, Z.D.; Heischkamp, H.; Benten, W.P.M.; Wunderli
submitted to the ENBL Data Library, March 1995
A;Description: Testosterone-induced immunosuppression of Plasmodium chabaudi malaria: di
A;Reference number: S52735
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  326 PASVGSTSGPATTPLASA-------PRPAPASNPPPPSLMSTTQSR 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     393
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 394 PHSFPHPL-----PSLTGGHGGHPMQHNPNGPPPWMQPPPPPMNQGPHPPGHHGPPP 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5 PRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQES- 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Species: equine herpesvints 1
A;Note: host Equus caballus (domestic horse)
C;Date: 30-56p-1992 #sequence_revision 30-5ep-1992 #text_change 16-Jul-1999
C;Accession: A36602
R;Telford, E.A.R; Watson, M.S.; McBride, K.; Davison, A.J.
submitted to GenBank, March 1992
A;Description: The DNA sequence of equine herpesvirus-1.
                                                                                                                                                    C;Species: Mus musculus (house mouse)
C;Date: 19-May-1995 #sequence_revision 21-Jul-1995 #text_change 05-Nov-1999
C;Accession: $52735
                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: mRNA
A;Residues: 1-548 <SCH>
A;Cross-references: EMBL:X85802; NID:gl332610; PIDN:CAA59797.1; PID:g758299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12 DAPAPTPCV--PAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVGAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64 ---VGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A, Molecule trpe: DNA
A, Residues: 1-1487 <TEL>
A, Rosser references: GB-186664; NID: G330791; PIDN: AAB02499.1; PID: G330855
A, Crosser references: GB-186664; NID: G330791; PIDN: AAB02499.1; PID: G330855
R; Tolford, E.A.R.; Watson, M.S.; McBride, K.; Davison, A.J.
Virology 189, 304-316, 1992
A, Title: The DNA sequence of equine herpesvirus-1.
A, Reference number: A41831; MUID: 92295566; PMID: 1318606
A, Contents: annotation; possible protein-coding frames
A, Note: neither amino acid nor nucleotide sequence is given
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           39;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 10.7%; Score 103.5; DB 2; Length 548; Best Local Similarity 22.9%; Pred. No. 1.8; Matches 43; Conservative 14; Mismatches 52; Indels 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Gene: 64
C;Superfamily: herpesvirus immediate-early protein IB175
C;Keywords: DNA binding; early protein; transcription regulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              155K transcription activator - equine herpesvirus 1 (strain Ab4p)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        366 PPWMNSGPSENR-PYHGMHGGGPGPG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              57 DAPLSTPAVVIPPP---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  45; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   447 MDQYLGST 454
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                                                                                                                                             protein - mouse
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Best Local S:
Matches 45,
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Length 815;

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DB 2;
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10.5%; Score 101.5;
Best Local Similarity 26.6%; Pred. No. 14;
Matches 54; Conservative 15; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              107 RRIRGASSAEAPDGDKDAPEPLDKVIILSP---
F,60-68/Region: protein kinase ATP-binding motif
                                          Query Match
Best Local Similarity 23.0%; Pred. No. 3.7;
Matches 58; Conservative 19; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3178 KLGERGRREREVVEAVAPAPRDYSRPRVP---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Search completed: February 5, 2004, 18:01:28 Job time : 15.875 sec8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     egument protein 64 - equine herpesvirus 2
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                                                                                                                                         14 PAPTPCV-PA-ECPDILV----
                                                                                                                                                                                                                                    46 XAGASSPAPRTALOPOE-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STELVITKIAGP 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STSLLAAQSLVP 670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Residues: 1-3436 <TEL>
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.Residues: 1-815 < ZHO.
Ross-treferences: GB:U25278; NID:g837260; PIDN:AAA81381.1; PID:g837261
Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; protein kinase homolo
                                                                                                                                                                                                                                                                                                                                                                                                                             Accession: T42761
Dieck, S.; Sammarti-Vila, D.; Langnaese, K.; Richter, K.; Kindler, S.; Soyke, A.; Wex,
Cell Biol. 142, 499-509, 1998
Title: Bassoon, a novel zinc-finger CAG/Glutamine-repeat protein selectively localized
Reference number: 222249; MUID:98345363; PMID:9679147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 neurotransmitte
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ------APPEVGRVSPOPPLSTKP 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  310 STAEPRPPAGEAQGKSATTVPSGLGAAEQTQGGLTGKLFGLGASL---LTQASTLMSVQP 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 102 WRRRQRRLRGASSAEAPDGDKDAPEPLDKVIILSPGISDATAPAWPPP---GEDPGTTPP 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;Species: Homo sapiens (man)
;Date: 19-Oct-1995 #sequence_revision 19-Oct-1995 #text_change 24-Sep-1999
;Accession: B56708
;Zacession: B56708
;Zacession: Dixon, J.E.
;Zach, G.; Bao, Z.Q.; Dixon, J.E.
;Zacession: B56708; MUID:95279403; PMID:7759517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -----GLLFGAPALLGLALVLALVLVGLVS 101
     RRORRL-RCASSAEAPDGDKDAPEPLDKVIILSPGISDATA-PAWPPPGEDPGTTPPGHS 161
                                                                                                                     464 RRRTELDRAPIPAPAP---APAPAPISTMIDLT---ANAPARPAPAPAPAALGPALAGAQ 517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 GPR---SLRGRDAPAPIPCVPAECFDLLVRHCVACGLLRIPRPRPKPXAGASSPAP-----R 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Residues: 1-3938 <DIE>
|Cross-references: EMBL:Y16563; NID:g3413503; PIDN:CAA76287.1; PID:g3413504
|Experimental source: strain Sprague Dawley; brain
                                                                                                                                                                                                                                                                                                                                                                                   Species: Rattus norvegicus (Norway rat)
Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 21-Jul-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Description: may be involved in cytomatrix organization at the site of A;Note: component of the presynaptic cytoskeleton C;Keywords: coiled coil; zinc finger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10.6%; Score 102; DB 2; Length 3938; 24.6%; Pred. No. 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                     ssoon protein - rat
Alternate names: brain-specific synapse-associated protein
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;52-315/Domain: protein kinase homology <KIN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              159 CHSVPVPATELGSTELVTTKTAG 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         409 AKTEPGPRIGPGSGPGALAKTGG 431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       272 GPROAEAARATSVPGPTOAT----
                                                                                                                                                                       162 VPVPATELGSTELVTTKTAGP 182
                                                                                                                                                                                                   : | | : | | : II
IGTPA----AAAAVTAAAAAP 534
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 24.63
Matches 50; Conservative
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A;Cross references: GB:U20824; NID:g695172; FIDN:AAC13852.1; FID:g695237
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, February 1995
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3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271 | 3271
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        494
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C;Date: 27-Oct.1995 #sequence_revision 03-Nov-1995 #text_change 08-Oct-1999
C;Accession: S55659
R;Telford, BA.R.; Watson, M.S.; Aird, H.C.; Perry, J.; Davison, A.J.
A;Title: The DNA sequence of equine herpesvirus 2.
A;Title: The DNA sequence of equine herpesvirus 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LAG-------LVLSDNDRSLLERWTRMARPAAPALTSVPAPAPTPTPTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              119 -DGDKDAPEPLDKVIILSPGISDATA-----PAWPPPGEDPGTTPPGHSVPVPATE--LG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            53 APRTALOPOESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLALVINGLVSWRRRO-----
135 PAPPPCPGPAPDTIDLTLQPPPPVSEPAPPKKDGAISDNTKAALKAALLKSIRSRLRDGP
                                                                                                                                                                                                                                                                                                                                      495 SAPLEAPEPRKPVTAQERQREREEKRRRRQERAKEREKRRQERERKERGAGASGGPSTDP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RRGPRSLRGRD----APAP----TPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 3436;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LPGLLFGAPALLGLALVLALVLVG-----LVSWRRRQRRLRGA-SSAEAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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February 5, 2004, 17:49:49; Search time 10.2778 Seconds (without alignments) 846.481 Million cell updates/sec OM protein - protein search, using sw model Run on:

US-10-045-574B-27 966 1 MRRGPRSLRGRDAPAPIPCV......ATELGSTELVTIKTAGPEQQ 185 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

127863 seqs, 47026705 residues Searched:

Total number of hits satisfying chosen parameters:

127863

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_41:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Description	Q96rj3 homo sapien	09d8d0 mus musculu	_	_		mus m		bos t	rattu	homo		equir	Q96dn6 homo sapien	equine	P29836 bovine herp			Q01582 penicillium	Q92985 homo sapien	Q10586 homo sapien	Q9tv66 oryctolagus	саепс		mus r		4 homo	homo 8	พนธ ก	~			P18832 caenorhabdi	P30667 azospirillu
SUMMAKIES	T13C HUMAN	T13C_MOUSE	XP2 XENLA	ICPO HSVBJ	HXB2_HUMAN	HCN4 MOUSE	T2D3 HUMAN	WASL_BOVIN			DUS8_HUMAN	ICP4_HSVEB	MBD6 HUMAN	ICP4_HSVEK	ICPO_HSVBK	MK07_HUMAN	A180_RAT	AREA_PENCH	IRF7_HUMAN	DBP_HUMAN	HCN4_RABIT	YQ35_CAEEL	Z219_HUMAN		GSR1_HUMAN	FN14_HUMAN		A180 MOUSE	TR17 MOUSE	PODX_RABIT	1 1	CC07_CAEEL	NIFA_AZOBR
OB	-1	н	Н	н	н	н	r-1	Н	Н	Н	,-1	н	Н		٦									Н	Н	н	н	Н	Н	н	Н	Н	Н
Length	184	175	439	676	356	1186	1083	505	1198	2142	625	1487	1003	1487	919	815	915	725	503	325	1175	317	722	520	1509	129	316	106	185	551	1229	316	625
% Query Match	98.86	42.5			11.9	11.4	11.4								10.6																	6.7	0.7
	954.5	411	118.5	116	115	110.5	110	106.5	106.5	105.5	103.5	103.5	103	102,5	102	101.5	101	100.5	66	98.5	98.5	97.5	97.5	97	96.5	95	95	95	94.5	94.5	4.	94	
Result No.	; -1	7	m	4	Ŋ	φ	7	60	D	10	11	12	13	14	15	16	17	18	13	20	21	22	23	24	25	56	27	28	29	30	31	32	33

Oggky7 oryctolagus O18964 bos taurus	PS0284 mus musculu	Q92949 homo sapien O75154 homo sapien	Q9y566 homo sapien P50551 canis famil	060309 homo sapien 015735 homo sapien	002223 homo sapien P08353 herpes simp
JPH2 RABIT SYJ1 BOVIN	CA15_HUMAN TNR3_MOUSE	FXJ1 HUMAN EFER HUMAN	SHK1_HUMAN VASP_CANFA	Y563 HUMAN	TR17_HUMAN ICP3_HSV1F
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1324	1838 415	421 756	2161	870	184 263
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ALIGNMENTS

RESULT 1 113C HIMAN 1 113C HIMAN 1 113C HIMAN 1 113C HIMAN 1 128-FE DT 28-FE DT 28-F
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61 QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120
                                                                                                                                                                                                                                                                                                              121 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 180
                                                                                                                                                                                                                                                       23
                                                                                                                                                                                                                                      1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP 60
                                                                                                    SIGNAL-ANCHOR
(TYPE II MEMBRANE PROTEIN) (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
TNFR-CYS (PARTIAL).
BY SIMILARITY.
BY SIMILARITY.
F -> PA (Int isoform 2).
/FIId=VSP_006505.
                                                                                                                                                                                                                                                    1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKP-AGASSPAPRTALQP
                                                                                                                                                                                                                   Gaps
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28-FEB-2003 (Rel. 41, Last annotation update)
Tumor necrosis factor receptor superfamily member 13C (B cellactivating factor receptor) (BAFF receptor) (BAFF-R) (BLyS receptor 3) (B-cell maturation defect).
TNFRSF13C OR BAFFR OR BCMD OR BR3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
STRAIN=BALB/C; TISSTE=B-cell lymphoma;
MEDLINE=21442025; PubMed=11509692;
Thompson JC., Bixler 2A., Olan F., Vora K., Scott M.L.,
Cachero T.G., Hession C., Schneider P., Sizing I.D., Mullen C.,
Strauch K., Zafari M., Benjamin C.D., Tschopp J., Browning J.L.,
                                                                                                                                                                                                                   ;
                                                                                                                                                                                             Score 954.5; DB 1; Length 184; Pred. No. 4.5e-58; 0; Mismatches 0; Indels 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-21475520; PubMed=11591325;
Yan M., Brady J.R., Chan B., Lee W.P., Hsu B., Harless S.M.,
                                         MIMI, DOLORY;
INTERPLO; IPRO1368; TNFR C6.
PROSITE; PS00652; TNFR NGFR 1; FALSE NEG.
PROSITE; PS00650; TNFR NGFR 2; FALSE NEG.
RECEPTOR; Immune response; Signal-anchor; Transmembrane;
Alternative splicing; 3D-structure.
                                                                                            EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                            F2BFB98099A27138 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A. (ISOFORM 1), AND DISEASE
                                                                                                                                                                                                                                                                                                                                                                                                                     175 AA
                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
        EMBL, AF373846; AAK91826.1; -. PDB; IMRV; 30-OCT-02. Genew; HGNC.17755; TNFRSF13C. MIM; 606269; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                        28-FEB-2003 (Rel. 41, Created)
                                                                                                                                                                              184 AA; 18863 MW;
                                                                                                                                                                                                 98.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Science 293:2108-2111(2001)
                                                                                                                                                                                                Query Match
Best Local Similarity 99.5
Matches 184; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                      184
35
35
143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (Mouse)
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18
19
24
143
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                                                                                           DOMAIN
                                                                                                                                 REPEAT
DISULFID
DISULFID
                                                                                                                                                                              SEQUENCE
                                                                                                                                                            VARSPLIC
                                                                                                                       DOMAIN
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the European Bioinformatics Institute. There are no restrictions on its most by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                        SECURNE FROM No. 1120CEMENT 11.

SECURNE FROM NO. 1120CEMENT 11.

KENTRESTRIGGT TISSUE-Small innestine;

KENTRESTORIGGT TISSUE-Small innestine;

KAWAI J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,

Alawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,

Asaito T., Okazati Y., Golobori T., Bono H., Kanikawa T., Saito R.,

Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casvant T.,

Radota K., Matsuda H.A., Ashburner M., Batalov S., Casvant T.,

Ruchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

Ruchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,

Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,

Blake J., Boffelli D., Hofmann M., Hune D.A., Kamiya M., Lee N.H.,

Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,

Ruchi H., Toyo-oka K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,

Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,

Wannaha, Boris A., Washida K., Hasegawa Y., Kawaji H., Kohtsuki S.,

Wannaha, Boris A., Voshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Name=2;
Isold=Q9D8D0-2; Sequence=VSP_006506;
Isold=Q9D8D0-2; Sequence=VSP_006506;
Isold=Q9D8D0-2; Sequence=VSP_006506;
Isold=Carlor of the parameter of the sequence of the se
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Receptor; Immune response; Signal-anchor; Transmembrane; Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (POTENTIAL)
Cancro M.P., Grewal I.S., Dixit V.M.; "Identification of a novel receptor for B lymphocyte stimulator that is mutated in a mouse strain with severe B cell deficiency."; Curr. Biol. 11:1547-1552(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=21614654; PubMed=11747827;
Harless S.M., Lentz V.M., Sah A.P., Hsu B.L., Clise-Dwyer K.,
Hilbert D.M., Hayes C.E., Cancro M.P.;
"Competition for BLyS-mediated signaling through Bcmd/BR3 regulates
peripheral B lymphocyte numbers.";
Curr. Biol. 11:1986-1989(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -i- FUNCTION: B-call receptor specific for INFSP13B/TALL1/BAFF/BLyS.
Prometes the survival of mature B-calls and the B-call response.
-: SUBCELLULAR LOCATION: Type III membrane protein (Probable).
-: ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hayashizaki Y.; "Functional annotation of a full-length mouse cDNA collection.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SIGNAL-ANCHOR
(TYPE III MEMBRANE PROTEIN)
CYTOPLASMIC (POTENTIAL).
TYPE-CYS (PARTIAL).
BY SIMILARITY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IsoId=Q9D8D0-1; Sequence=Displayed;
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Alternative splicing
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us-10-045-574b-27.rsp

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J. Virol. 66:2763-2772(1992)
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CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                              DISULFID
DISULFID
VARSPLIC
                                                                                                                                                                                                                                                                               DISULFID
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                                                                                                                                                                                                                   HAIN
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Matches
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                                                                                                      6
                                                                                                                                                                                                                               183
                                                                                                                                                                             66 AGAGBAALPLPGILFGAPALLGLALVLALV-LVGLVSWRRRQRRLRGASSAEAPDGDKDA 124
                                                                                                                                                                                                                                                    115 goeslenvevpssetphasaptwpplkedadsalprhsvpvpatelgstelvtiktagpe 174
                                                                                                                                                     62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE OF 1-25 AND 344-439 FROM N.A. (ISOFORM 2).
MEDLINE-92332564; PubMed=1629230;
Hauser F., Roeben C., Hoffmann W.;
"xF2, a new member of the P-domain peptide family of potential growth factors, is synthesized in Xenopus laevis skin.";
J. Biol. Chem. 267:14451-14455 (1992).
                                                                                                                                                   9 RSQRSRDSSVPTQCNQTECPDPLVRNCVSCELFHTP---DTGHTSSLEPGTALQPQE---
                                                                                                                                                                                            125 - PEPLDKVIILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIMILARITY: Contains 2 P-type (trefoil) domains.
CAUTION: REF.2 SEQUENCE DIFFERS FROM THAT SHOWN FROM POSITION 392
ONWARD AND IS SHORTER (418 AA) DUE TO A FRAMESHIFT.
                                                                                                                             6 RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -- FUNCTION: MAY ACT A GROWTH FACTOR IN THE GERMINAL LAYER OF THE EPIDERMIS. MAY ALSO BE INVOLVED IN GROWTH OF REGENERATING GLANDS AND IN PROTECTION OF THE SKIN FROM THE EXTERNAL ENVIRONMENT.
-- SUBSELLULAR LOCATION: SECTETED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Skin;
MEDLINE=90127399; PubMed=2298293;
Gmachl M., Berger H., Thalhammer J., Kreil G.;
"Dermal glands of Kanopus laevis contain a polypeptide with a highly repetitive amino acid sequence.";
FEBS Lett. 260:145-148(1990).
                                                                                                    16; Gaps
                                                                                                                                                                                                                                                                                                                                                                                           01-AUG-1990 (Rel. 15, Created)
01-FB1-1995 (Rel. 31, Last sequence update)
15-SBP-2003 (Rel. 42, Last amocation update)
Skin secretory protein xP2 precursor (APEG protein).
Skin secretory protein xP2 precursor (APEG protein).
Skenpous laevis (African clawed fixog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
BY SIMILARITY.

N-LIRKED (GLCNAC. . .) (POTENTIAL)
Missing (in isoform 2).
/FIId=VSP 006506.
, 28BC7CIÃ02FB87EF CRC64;
                                                                           Length 175;
                                                                                                    55; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Event-Alternative splicing; Named isoforms=2;
Name=1; Synonyms=APEG;
IsoId=P17437-1; Sequence=Displayed;
Name=2; Synonyms=XP2, Sequence=VSP_004652;
IsoId=P17437-2; Sequence=VSP_004652;
                                                                         42.5%; Score 411; DB 1;
ilarity 55.8%; Pred. No. 1.7e-21;
Conservative 9; Mismatches 55;
                                                                                                                                                                                                                                                                                                                                                                     439 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE OF 3-439 FROM N.A. (ISOFORM 1)
                                                   18798 MW;
                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Xenopodinae; Xenopus.
                                                   175 AA;
                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=8355;
 27
23
133
                                                                                                                                                                                                                                                                                                                                                                                 P17437; Q08944;
01-AUG-1990 (Re
                                                                                                                                                                                                                                                                               Q 184
                                                                                                                                                                                                                                                                                                       0 175
                                                                                                  101;
                                                                                                                                                                                                                                                                                                                                                                   XP2 XENLA
                                                                                                                                                                                                                                                                                 184
                                                                                                                                                                                                                                                                                                       175
 DISULFID
CARBOHYD
                            VARSPLIC
                                                 SEQUENCE
                                                                           Query Match
                                                                                          Local
                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                         XP2_XENLA
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use by non-profit institutions as long as its content is in no way and file and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -------EGEAPAPAPAEGEA 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EAPAPAPAEGEAPAPAPABG-------EAPAPAPABGEAPAPAPAPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           64 VGAGAGEAALPLPGLIFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAP-DGDK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12 DAPAPTPC-----VPAECFDLLVRHCVACGLLRTPRPKPXAG-ASSPAPRTALQPQES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SKIN SECRETORY PROTEIN XP2.
PYRROLIDONE CARBOXYLIC ACID (PROBABLE)
33 X REPEATS OF G-[GE]-[AP](2,4)-A-E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-92219360; PubMed=1313901; Wirth U.V., Fraefel C., Vogt B., Vlcek C., Paces V., Schwyzer M.; Wirth U.V., Fraefel C., Vogt B., Vlcek C., Footback I. Immediate-early RNA 2.9 and early RNA 2.6 of bovine herpesvirus 1 are 3 coterminal and encode a putative zinc finger transactivator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             57;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  239 PAPAPAEGEAPAPAEGEAPAPA-PAEGEAPAPAPAEGEAPAPAEG 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               123 DAPEPLD-KVIILSPGISDATAPARAWPPPGEDPGTTPPGHSVPVPATELG 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 439;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-1992 (Rel. 24, Created)
01-DEC-1992 (Rel. 24, Last sequence update)
16-OCT-2001 (Rel. 40, Last amoration update)
Trans-acting transcriptional protein ICPO (P135 protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                             PIR; A7731; A37331.

HSSP, P04135; 1852.

HSSP, P04135; 1852.

InterPro; IRR000519; P trefoil.

Pfam; PP00088; trefoil; 2.

PRINTS; PR000680; PTREFOIL.

SMART; SM00018; PD; 2.

FROSITE; PS00025; P TREFOIL; 2.

Signal; Growth factor; Alternative splicing; Repeat; Pyrrolidone carboxylic acid.

Pyrrolidone carboxylic acid.

SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               38C4A4B57CBAE778 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P-TYPE 2.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

MASSING (in isoform 2).

/FTIG=VSP_004652.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bovine herpesvirus type 1 (strain Jura).
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Alphaherpesvirinae; Varicellovirus.
VCBI_TaxID=31518;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10; Mismatches 58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -> S (IN REF. 2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ch 12.3%; Score 118.5; D
I Similarity 26.0%; Pred. No. 0.2;
44; Conservative 10; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P-TYPE
                                                                                                                                                       EMBL; M90095; AAA50001.1; -.
EMBL; X51394; CAA35759.1; ALT_FRAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       211 PAPAEGEAPAPAPA-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            41173 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               439 AA;
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Best Local Similarity
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MEDLINE=89378558; PubMed=2570724;
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  EMEL, M04465, AA46062.1; -.

R EMEL, AJ004801; CAA06138.1; -.

R EMEL, AJ004801; CAA06138.1; -.

R EMEL, AJ004801; CAA06138.1; -.

R EASP, P28890; LCHC.

R FAST, P28900; TCHC.

R FAST, SM00184; RING; 1.

R POSITE; PS00018; ZF RING; 1.

R ROSITE; PS00018; ZF RING; 1; 1.

R ROSITE; PS00018; ZF RING; 1; 1.

R PASTE; PS0018; ZF RING; 1; 1.

R PASTE; PS0019; ZF RING; 1; 1.

R PASTE; PS0101; PS
                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its way non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRGROTPAVOPAPRS----LARRPCGRAAAVSAPPSSRSRGGRRDPRLPALPRAAPAAQ 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      409 ARACSPEPR-----EEGRGAGLGVAAGETAGWGAGSEEGRGERRARLLGEAGPPRVQARR 463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RRORRL-RGASSAEAPDGDKDAPEPLDKVIILSPGISDATA-PAWPPPGEDPGTTPPGHS 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 SIRGRDAPAPIPCVPAECFDLLVRHCVAC------GLLRIPR-----PKPX 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   47 AGASSPAPRTALQPQESVGAGAGAALPLPGLLFGAPALLGLALVLALVLVG---LVSWR
    PTM: THE STRONGLY ACIDIC REGION MIGHT SERVE AS A TRANSCRIPTIONAL ACTIVATION DOMAIN, POSSIBLY REGULATED THROUGH PHOSPHORYLATION BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
MEDLINE=90098876; PubMed=2574852;
Acampora D., D'Esposito M., Faiella A., Pannese M., Migliaccio E.,
Moralli F., Stornaiuolo A., Nigro V., Simeone A., Boncinelli E.;
"The human HOX gene family.";
Nucleic Acids Res. 17:10385-10402 (1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa; Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia; Eutheria; Primates; Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12.0%; Score 116; DB 1; Length 676; 30.8%; Pred. No. 0.43; ative 13; Mismatches 82; Indels 4
                                       CASEIN KINASE II.
-!- SIMILARITY: Contains 1 RING-type zinc finger.
-!- SIMILARITY: TO OTHER HERPESVIRUSES ICPO PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HXB2_HUMAN STANDARD; PRT; 356 AA.
P14652; P10913; P17482.
01-APR-1990 (Rel. 14, Created)
01-APR-1990 (Rel. 14, Last sequence update)
28-PBB-2003 (Rel. 41, Last annotation update)
HOMEO DAY PROCESS (Rel. 41, Last annotation update)
HOMEO CON HOMEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      162 VPVPATELGSTELVTTKTAGP 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE OF 132-208 FROM N.A. TISSUE=Placenta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                353
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HXB2_HUMAN
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PR Gragosto, A., Carebora D., Espainvigna V., Pantese M., R., Paristration A., Paristration A., Paristration A., Paristration A., Paristration C., Paristration
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NP BIND
CARBOHYD
SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                          TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
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                                                     11;
                                                                                                                                                                                                        66 PRSQKRAEDGPALPPPPPPPPPPPA------APPAPEFPWMKEKKSAKKPSQ 109
                                                                                                                                                          10 SĄTSPSPAASAVPASGVGSPADGLGLPEAGGGGARRLRTAYTNTQLLELEKEFHFNKYLC 169
                                                                                                                                                                                    82 APALLIGLALVILALVLVGLVSW--RRRORRLRGASSAEAPDGDKDAPEPLDKVI-----I 133
                                                                           PRS-LRGRDAPA----PIPCVPAECFDLLVRHCVACGLLRIPRP-------KPXA 47
                                                                                                                                  48 GASSPAPRTALQPQESVGAGAGEAALPLPG--------LL-----FG 81,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PUNCTION: Hyperpolarization-activated ion channel with very slow activation and inactivation exhibiting weak selectivity for potassium over sodium ions. May contribute to the native pacemaker currents in heart (If) and in neurons (Ih). Activated by CAMP (By similarity). May mediate responses to sour stimuli.

-: SUBUNIT: The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming subunits.

-: SUBCELLUIAR LOCATION: Integral membrane protein.

-: TISSUE SPECIFICITY: Detected in a subset of elongated cells in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=21530492; PubMed=11675786; Stevens D.R., Seidert R., Bufe B., Mueller F., Kremmer E., Gauss R., Stevens D.R., Lindemann B.; Mayerhof W., Kaupp U.B., Lindemann B.; "Hyperpolarization-activated channels HCN1 and HCN4 mediate responses
                                                                                                                                                                                                                                                                                                                                            28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
chassium/sodium hyperpolarization-activated cyclic mucleotide-gated
channel 4 (Brain cyclic nucleotide gated channel 3) (BCNG-3).
HCN4 OR BCNG3.
                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Laste buds.

DOMAIN: The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.

SIMILARITY: BELONGS TO THE POTASSIUM CHANNEL FAMILY. HCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=98292171; PubMed=9630217;
Santoro B., Liu D.T., Yao H., Bartsch D., Kandel B.R.,
Siegelbaum S.A., Tibbs G.R.;
"Identification of a gene encoding a hyperpolarization-activated
'pacemaker' channel of brain.";
                                                   88;
                                                                                                                                                                                                                                           ---PG----EDPGTTPPG 159
                                                                                                                                                                                                                                                                    230 ASPGGPSASRAAWEACCHPPEVVPGALSADPRPLAVRLEGAGASSPG 276
                        11.9%; Score 115; DB 1; Length 356; 24.7%; Pred. No. 0.28; tive 15; Mismatches 68; Indels
37913 MW; D7ACA0E3D5BEBFB9 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CONCEPTUAL TRANSLATION OF 1-178 AND 685-1186.
                                                                                                                                                                                                                                                                                                                                      PRT; 1186 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 finz U.;
Unpublished observations (FEB-2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FUNCTION, AND TISSUE SPECIFICITY.
                                                                                                                                                                                                                                            134 LSPGISDATAPAW----PP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE OF 179-684 FROM N.A.
              Query Match
Best Local Similarity 24...,
Best Local Similarity 24...,
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              to sour stimul1.";
Nature 413:631-635(2001).
                                                                                                                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'pacemaker' channel o
                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus (Mouse)
 356 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxiD=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rissue=Brain;
                                                                                                                                                                                                                                                                                                                                      HCN4_MOUSE
 SEQUENCE
                                                                                                                                                                                                                                                                                                             KESULT 6
HCN4 MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hinz
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         55 RTALOPOESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQFRLRGASS 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RGSLASLGSRGGGSGGAG------GGSSL-----GHLHDSAEERRLIAAEG 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              137 DASPGEDR-----TPPGL--ATEPERPATAAQPAASPPPQQPPQPAS--ASCEQ 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              40 RODPSRRSIRLRPIDSPSPSVAAGCSE---SRGAALGATESEGEGERSAGKSSTNGDCRRF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 RRGP--RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMART; SM00100; cNMP; 1.
PROSITE; PS00888; CRWP BINDING 1; 1.
PROSITE; PS00889; CRWP BINDING 2; FALSE NEG.
PROSITE; PS50042; CRWP BINDING 3; 1.
Transport; 1on transport; Ionic channel; Voltage-gated channel;
Potassium channel; Potassium; Potassium transport; Sodium transport;
-!- SIMILARITY: Contains 1 cyclic nucleotide-binding domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     T2D3 HUMAN STANDARD; PRT; 1083 AA.
000568; Q99721; Q9BR40; Q9BX42;
15-UUL-1998 (Rel. 36, Created)
15-UUL-1998 (Rel. 36, Last sequence update)
15-SFP-2003 (Rel. 36, Last annotation update)
Transcription initiation factor TFIID 135 kDa subunit (TAFII-135)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 458 458 N-LINKED (GLCNAC. .) (POTENTIAL)
1186 AA; 127413 MW; B3DC16818E8697DC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 1186;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CYTOPLASMIC (POTENTIAL).
INVOLVED IN SUBUNIT ASSEMBLY (BY
SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEGMENT SS (POTENTIAL).
SEGMENT HS (PORE-FORMING)
SEGMENT S6 (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEGMENT S1 (POTENTIAL).
SEGMENT S2 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
SEGMENT S3 (POTENTIAL).
SEGMENT S4 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cAMP; cAMP-binding; Transmembrane; Glycoprotein.
DOMAIN 1 266 CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           73;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11.4%; Score 110.5; I 27.4%; Pred. No. 1.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        51; Conservative 17; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRO/SER-RICH
                                                                                                                                                                                                                                                                                                                                                                                                   MGD; MGI:1298209; HCn4.
InterPro; IPR001595; CNMP binding.
InterPro; IPR0016921; Ion trans.
InterPro; IPR005820; M+channel nlg.
Pfan; PP00027; CNMP binding; 1.
Pfam; PF00520; ion_trans; 1.
                                                                                                                                                                                                                                                                                                                                                                     EMBL; AF064874; AAC40126.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CNMP:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      175 VITKTA 180
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                 sequence.
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SECURACE FROM N.A.

SEQUIRICE FROM N.A.

SEQUIRICE FROM N.A.

MEDLINE-21638749; PubMed=11780052;

MEDLINE-21638749; PubMed=11780052;

A matchews L.H., Ashurst J., Barton J., Gilbert J.G.R.,

Deloukas P., Matchews L.H., Ashurst J., Bardon D.M.,

Bailey J., Barlow K.F., Blates K.N.; Beard L.M., Beare D.M.,

Balley J., Burrill W.D., Butler A.P., Carder C., Carrer N.P.,

Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y. Clee C.M.,

Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,

Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,

Clegg S., Cobley V.E., Deadman R., Dhann, P.D., Dunn M.,

Clegg S., Rarley J.L., Heath P.D., Ho S., Holden P.J.,

Ammond S., Harley J.L., Heath P.D., Howen C.M., Johnson D.,

Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,

Lehveselalaho M.H., Leversha M.A., Lloyd C., Lloyd D.M., Jovell J.D.,

Marsh V.L., Martin S.L., McConnachie L.J., McLay K., McMurray A.A.,

Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T.,

Allower K., Parker A., Patel R., Pearce T.A.V., Peck A.I.,

Allower M., Sycamore M., Taylor R., Tee L., Thomas D.W., Thorpe A.,

Rice C.M., Ross M.T., Scott C.E., Schra H.K., Showhkeen R., Sins S.,

Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,

Milming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,

Rogers J., Wirey P.W., Hubbard T., Durbin R.M., Bentley D.R.,

Rogers J., Willers D.M., Charley D.M., Milliams L., Williams S.A.,

Rogers J., Wirey P.W., Hubbard T., Durbin R.M., Bentley D.R.,

Rogers J., Willer B.M., Control R., Ross R., Robert B., Robert B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the BNBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE-97336072; PubMed-9192867; Mengus G., May M., Carre L., Chambon P., Davidson I.; May M., Carre L., Chambon P., Davidson I.; Dotentiates transcriptional activation by the AF-2s of the retinoic acid, vitamin D3, and thyroid hormone receptors in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "The DNA sequence and comparative analysis of human chromosome 20."; Nature 414:865-871(2001).
                                                                 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
(TAFII135) (TAFII-130) (TAFII130).
TAF4 OR TAF4A OR TAF2C1 OR TAF2C OR TAFII135 OR TAFII130.
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUBCELLULAR LOCATION: Nuclear. SIMILARITY: BELONGS TO THE TAF2C FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF TBP-ASSOCIATED FACTORS (TAFS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; AL137077; CAC36006.1; -.
EMBL; AL109911; CAC22312.2; -.
EMBL; U75308; AAC50901.1; -.
PDB; 11305; 26-SEP-02.
                                                                                                                                                                                                                                                                                                          Genes Dev. 11:1381-1395(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; Y11354; CAA72189.1; -.
                                                                                                                                             [1]
SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                      mammalian cells."
                                                                                                                 NCBI_TaxID=9606;
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87 -GLALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKDAPEPLDKVIILSPGISDATAPA 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    218 NGPAALLPLPKPAAPGTVIQTPPFVGAAPPAP----AAPSPPAPAAPAAP----AAAPP 269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tyrosine kinases.";
EMBO J. 15:5326-5335(1996),
-!- FUNCTION: REGULATES ACTIN POLYMERIZATION BY STIMULATING THE ACTIN-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 RRGPRSLRGRDAPAPTPCVPA------ECFDLLVRHCVACGLLRTPRPKPXAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Miki H., Miura K., Takenawa T.; "N-WASP, a novel actin-depolymerizing protein, regulates the cortical cytoskeletal rearrangement in a PIP2-dependent manner downstream of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                104 RPGPPSPRRPLVPA-GPAPPAAKIRPPPEGSAGACAPVPAAAAVAAG----PEPAP-AGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  50 SSPAPRTALQPQESVGAGAGEAALPLPG-----LLFGAPALL-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Cetartiodactyla, Ruminantia, Pecora, Bovoidea,
Bovidae, Bovinae, Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          270 PPPPAPATLARPPGHPAGPPTAAPAVPPPAAAQNGGSAGAAPAPAAGGP 320
                             MIM; 601796; -.
GO; GO:0005659; C:transcription factor TPIID complex; TAS.
GO; GO:0006251; F:general RNA polymerase II transcription fac.
GO; GO:0005115; F:protein binding activity; TAS.
GO; GO:0003713; F:transcription co-activator activity; TAS.
Interpro; IPRO3894; TAF hom.
Efan; PRO5256; TAF4; 1.
SWART; SM00549; TAFH; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          146 WPPPGEDPGTTPPGH-----SVPVPAT----ELGSTELVTTKTAGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11.4%; Score 110; DB 1; Length 1083; 27.3%; Pred. No. 1.7; ive 11; Mismatches 93; Indels 6.
                                                                                                                                                                                                                                                                                                                          POLY-ASP.
PGPPSPRRPLVPA -> GRGLLQQRGGRES
                                                                                                                                                                                                                                                                                                                                                         (IN REF. 3).
A -> S (IN REF. 2).
G -> GPG (IN REF. 2).
MISSING (IN REF. 3).
P -> L (IN REF. 3).
B -> L (IN REF. 3).
                                                                                                                                                                   protein; 3D-structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-0CT-2001 (Rel. 40, Created)
16-0CT-2001 (Rel. 40, Last sequence update)
18-BEB-2003 (Rel. 41, Last annotation update)
Neural Wiskott-Aldrich syndrome protein (N-WASP)
                                                                                                                                                                                                  POLY-ALA.
POLY-GLY.
POLY-ALA.
POLY-PRO.
POLY-ALA.
POLY-ALA.
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MEDLINE=97050838; PubMed=8895577;
                                                                                                                                                                     ranscription regulation; Nuclear
                                                                                                                                                                                                                                                                                                                                                                                                                                                 109943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity 27.39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
            Genew; HGNC:11537; TAF4.
                                                                                                                                                                                                                                                                                                                                                                                             185 18
233 26
293 29
1083 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bos taurus (Bovine)
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TRANSFAC; T02328;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WASL BOVIN
Q95107;
                                                                                                                                                                                                                                                                                                                                                                             CONFLICT
CONFLICT
CONFLICT
CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                            CONFLICT
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                                                                                                                                                                                                                                                                                                           DOMAIN
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TRANSMEM
DOMAIN
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TRANSMEM
TRANSMEM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  59 OPQESVGAGAGEAALPIPGILFGAPALLGLALVIALVIVGLVSWRRRQRRLRGASSAEAP 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        344 PP------PSSAP 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ---- PPPSRPGVGAPPPPNRMY 343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 PRSLRGRDAP-----APTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTAL 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              119 DGDKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPP-----GHSVPVPA 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        356 SGPPPPPPL----SVSGSVAPPPPPPPPPPPPPPPPPPPPPPPPAGLPSDGDHQVPTPA 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rattus norvegicus (Rat).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Rattus.
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09JKÄ7; 090ZW4;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated
                                      -!- SUBUNIT: BINDS ACTIN AND ARP2/3 COMPLEX; INTERACTS WITH CDC42
BINDS TO SH3 DOMAINS OF ASH/GRB2.
-!- SIMILARITY: Contains 1 CRIB domain.
-!- SIMILARITY: Contains 1 WH1 domain.
-!- SIMILARITY: Contains 2 WH2 domains.
NUCLEATING ACTIVITY OF THE ACTIN-RELATED PROTEIN 2/3 (ARP2/3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             87;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 505;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                54B83B48F1CDB3B8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 106.5; D
Pred. No. 1.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.
STRAIN=Sprague-Dawley; TISSUE=Brain;
MEDLINE=20457301; PubMed=11000485;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 PPPARGRGAPPPPSRAPTAAPPP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WH2 1.
WH2 2.
ASP-RICH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRO-RICH.
                                                                                                                                                                                                                                                                                                                    EMBL, D67066; BAA11082.1; -.
PIR, S72273; S72273.
InterPro; IPR000697; EVH1.
InterPro; IPR000095; PAKbox/Rhobndng.
InterPro; IPR001960; WH1.
InterPro; IPR003124; WH2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                54671 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11.0%;
23.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam; PF00786; PBD; 1.
Pfam; PF00568; WH1; 1.
Pfam; PF00205; WH1; 2.
SWART; SW00285; PBD; 1.
SWART; SW00246; WH1; 1.
SWART; SW00246; WH2; 2.
PR0SITE; PS50108; CRIB; 1.
Actin-binding; Repeat.
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 41; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          203
277
277
405
433
486
505 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
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    SOUND BRANK 
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Monceggia L.W. Sigeh A.M. Tang M.D. Accordance L.K. Nestler E.J.;

"Clonida and localization of the hyperpolarization-activated cyclic
Exain Res. Mol. Estain Res. 21,129-135(2000).

"Exain Res. Mol. Estain Res. 21,129-135(2000).

"Exain Res. Mol. Estain Res. 21,129-135(2000).

"MEDINES-2015-217; PubMed-14100919.

"MEDINES-2015-217; PubMed-14100919.

"MEDINES-2015-217; PubMed-14100919.

"MEDINES-2015-217; PubMed-14107756.

"MEDINES-2015-217; PubMed-14107756.

"MEDINES-2015-217; PubMed-14107756.

"MEDINES-2015-217; PubMed-14107756.

"MEDINES-2015-218 MON. Superplace of hyperpolarization-activated cation

"Meyerbol K., Kaupp U.B., Lindemann B., Meller F., Kreimer E., Gauss R.,

"Meyerbol K., Kaupp U.B., Lindemann B., Meller F., Kreimer E., Gauss R.,

"Meyerbol K., Kaupp U.B., Lindemann B., Meller F., Kreimer E., Gauss R.,

"Meyerbol K., Kaupp U.B., Lindemann B., Meller B., Meller B.,

"Meyerbol K., Kaupp U.B., Lindemann B., Meller B., Meller B.,

"Meyerbol K., Kaupp U.B., Lindemann B., Meller B., Meller B.,

"Meyerbol K., Kaupp U.B., Meller B., Meller B., Meller B.,

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"Meyerbol K., Meller B., Meller B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAG 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 PAPTPCVPAECFDILVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVGAGAGEAAL 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74 PLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG------D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.9%; Score 105.5; DB 1; Length 2142; 24.9%; Pred. No. 6.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1611 1611 T -> S (IN REF. 2).
1729 1729 G -> A (IN REF. 2).
2142 AA, 227840 MW, 32DDF16B9B52420A CRC64;
                                                                                                                                                                                                                                                                                                                                   X 57 AA TYPE A REPEATS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X 50 AA TYPE C REPEATS
                           MIM; 142580; -.
GO; GO:0003822; F:MHC-interacting protein; TAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          547 PTPGVA-AAPTLVS----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              46; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
Genew; HGNC:13918; BAT2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              584 KEGPEPPEEV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  506 PAPPPAVPKE-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                182 -PEQQ 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DUS8_HUMAN
Q13202;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 180
                                                                                                                                                                                                                                                                                                                                                                                          RSIKLRPLPSPSPSVAAGCSE---SRGAALGAADSEGPGRSÄGKSSTNGDCRRFRGSLAS 102
                                                                                                                                                                                                                                                                                                                                                                                                                                             QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               103 IGSRGGGSGGAG-----GGSSL-----GHLHDSAEERRLIAAEGDASPGE 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DR------TPPGL--ATEPERPGAAAQPAASPPPQQPPQPAS-ASCEQPSADTA 187
                                                                                                                                                                                                                                                                                                                                        RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP----RTALQP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-FEB-1996 (Rel. 33, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Large proline-rich protein BAT2 (HLA-B-associated transcript 2) (G2).
                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       y complex encodes motifs and a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDINE-93272029; PubMed-8499947;
Iris F.J.M., Bougueleret L., Prieur S., Caterina D., Primas G.,
Perrot V., Jurka J., Rodriguez-Tome P., Claverie J.-M., Dausset J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Dense Alu clustering and a potential new member of the NF kappa B family within a 90 kilobase HLA class III segment.";
Nat. Genet. 3:137-145(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            !- TISSUE SPECIFICITY: LIMITED TO CELL-LINES OF LEUXEMIC ORIGIN.
                                                                                                    PRO/SER-RICH.
N-LINKED (GLCNAC. . .) (POTENTIAL)
I -> V (IN REF. 2).
                                                                                                                                                                                                                              / Match 11.0%; Score 106.5; DB 1; Length 1198; Local Similarity 27.2%; Pred. No. 3.1; hes 49; Conservative 16; Mismatches 72; Indels 43;
                         INVOLVED IN SUBUNIT ASSEMBLY (BY SIMILARITY).
                                                                                                                                                                               128760 MW; 6B92B8F9452F760F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Banerji J., Sands J., Strominger J.L., Spies T., 18 gene pair from the human major histocompatibility large profine-rich proteins with multiple repeated mo single ubiquitin-like domain.";
  CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Proc. Natl. Acad. Sci. U.S.A. 87:2374-2378 (1990)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=T-cell;
MEDLINE=90192810; PubMed=2156268;
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EMBL, M33518; AAA35586.1; -.
EMBL, M33512; AAA35586.1; JOINED.
EMBL; Z15025; CAA787444.1; -.
PIR, B35098; B35098.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE OF 1-1860 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                           595 71
799 107
458 45
404 40
1198 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cohen D.;
                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                               SEQUENCE
                                                                           NP BIND
DOMAIN
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DDB B DDB B

48;

2

(IN REF.

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-----ppp-----TrPPVPKVEPKGDGIGPTRQPPSQGLG 623
                                                                                                                                                                                                                                                                                                                                                          15-JUL-1999 (Rel. 38, Created)
15-JUL-1999 (Rel. 38, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Dual specificity protein phosphatase 8 (EC 3.1.3.48) (EC 3.1.3.16)
Dual specificity protein phosphatase hVH-5).
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                               625 AA.
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ICP4 HSVEB
P28925;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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                                                                                                                        IE OR 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
MBD6_HU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <del>a</del>
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                                                                                                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBD outstands. The the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    316 TPEPPPSPAGGAPLPR--LPPPTSESAATGNAAREGGLSAGGEPPAPPTPPATSALOOG 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LVGL-VSWRRRQ--RRLRGA----SSAEAPDGDKDAPEPLD-----KVIIL----- 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TPRPKPXAGASSPAPRTALQPQESVGAGAGEAALPLPGLLFG----APALLGLALVLALV 95
                                                                  TISSUE=Fetal brain;
MEDLINE=9609533; PubMed=7561881;
Martell K.J., Seasholtz A.F., Kwak S.P., Clemens K.K., Dixon J.E.;
MATTELL K.J., Seasholtz A.F., Kwak S.P., Clemens K.K., Dixon J.E.;
"NVH-5: a protein tyrosine phosphatase abundant in brain that
inactivates mitogen-activated protein kinase.";
J. Neurochem. 65:1823-1833 (1995).
- i- FUNCTION: THIS PROTEIN SHOWS DOTH ACTIVITY TOWARD TYROSINE-PROTEIN
PHOSPHATE AS WELL AS WITH SERINE/THREONINE-PROTEIN PHOSPHATE (BY
                                                                                                                                                                                                                                                 -!- IISSÜE SPECIFICITY: ABUNDANT IN BRAIN, HEART, AND SKELETAL MUSCLE.
-!- SIMILARITY: BELONGS TO THE NON-RECEPPOR CLASS OF THE PROTEIN-
TYROSINE PHOSPHATASE FAMILY. DUAL SPECIFICITY SUBFAMILY.
-!- SIMILARITY: Contains 1 rhodanese domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                70; Indels 33; Gaps
                                                                                                                                                                                            CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)0 = protein
. Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                           tyrosine + phosphate.
-!- CATALYTIC ACTIVITY: A phosphoprotein + H(2)O = a protein +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MINIO 9020367; C:CYtoplasm; TAS.
GO; GO:0004725; F:protein tyrosine phosphatase activity; TAS.
GO; GO:0000188; P:inactivation of Mark; TAS.
GO; GO:0000188; P:inactivation of Mark; TAS.
GO; GO:0000188; P:inactivation of Mark; TAS.
InterPro; IPR000340; DS phosphatase.
InterPro; IPR000340; DS phosphatase.
InterPro; IPR000387; TYR phosphatase.
Fram; PF00782; DSPc; 1.
SMART; SM00450; RHOD; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 625;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PROTEIN-TYROSINE PHOSPHATASE. PRO-RICH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----SPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELG 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  434 GLSSPSPDSPDAAPEARPRRRP-RPPAGSPARSPAHSLG 473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIMILARITY.
DCBEA14487219666 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 103.5; D
Pred. No. 2.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE: PSS0206; RHODANESE 3; 1.
PROSITE: PSS0383; TYR PHOSPHATASE 1; 1.
PROSITE: PSS0056; TYR PHOSPHATASE 2; 1.
PROSITE: PSS0054; TYR PHOSPHATASE DUAL; 1.
Hydrolase; Nuclear protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RHODANESE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           65840 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10.7%;
32.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; U27193; AAA83151.1; -.
HSSP; Q16828; 1MKP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                               16828; IMKP.
HGNC:3074; DUSP8.
    Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           625 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                            NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
ACT SITE
SEQUENCE
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                                               01-DEC-1992 (Rel. 24, Created)
1-DEC-1992 (Rel. 24, Last sequence update)
01-FBE-1994 (Rel. 28, Last annotation update)
Trans-acting transcriptional protein ICP4 (155 kDa immediate-early
                                                                                                                                                                                                                                                                                                                                       Length 1487;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10.7%; Score 103.5; DB 1; Length 28.7%; Pred. No. 6; ive 11; Mismatches 62; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 922 931 ARG/LYS-RICH (BASIC).
1487 AA; 154868 MW; 1D4397838D03680D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PHOSPHORYLATION.
-!- SIMILARITY: BELONGS TO THE ICP4/IE140/IE180 FAMILY
                                                                                                                                                                                             Equine herpesvirus type 1 (strain Ab4p) (EHV-1).
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Alphaherpesvirinae; Varicellovirus.
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1487
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  STANDARD;
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NCBI_TaxID=10329;
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SEQUENCE
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Matches
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                                                                                               Tashiro H., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Sugiyama T., Irie R., Otsski T., Sarc H., Wakamatsu A., Ishii S., Yamamoto J., Isono Y., Kawai-Hio Y., Saito K., Nishikawa T., Kimura K., Yamashira H. Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K., Wagatsuma M., Murakawa K., Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B., Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K.,
                                                                                                                                                                                                                                    MEDLINE-21456161, PubMed=11572484;
Nagase T., Kikuno K., Ohara O.;
Prediction of the coding sequences of unidentified human genes. XXI.
The complete sequences of 60 new cDNA clones from brain which code for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  54 PRIALQ-POESVGAGAGEA-----ALPLP----GLLF---GAPALLG-LALVLAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88; Gaps
                         Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 103; DB 1; Length 1003; Pred. No. 4.6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -> G (IN REF. 1; BAB71176).
-> QQ (IN REF. 1; BAC04045).
; 6C8E8693AA6A3BE6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       69; Indels
                                                                                                                                                                                  "NEDO human cDNA sequencing project.";
Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
  Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  th 10.7%; Score 103; DB Similarity 26.7%; Pred. No. 4.6; 62; Conservative 13; Mismatches
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D -> G (I)
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Interpro; IPR01739; Methyl-CpG_bind.
Pfam; PF01429; MBD; 1.
SWART; SM00391; MBD; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                548 GOPPEPLINHSLFGVLTG-----
15-SEP-2003 (Rel. 42, Last annotat
Methyl-CpG binding domain protein
MBD6 OR KIAA1887.
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101200 MW;
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                                                                                                                                                                                                                                                                              large proteins.";
NA Res. 8:179-187(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     802 80
1003 AA;
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Best Local Similarity
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SEQUENCE FROM N.A.
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CONFLICT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=90064773; PubMed=2555546;
MEDLINE=90064773; PubMed=2555546;
MEDLINE=90064773; PubMed=2555546;
Mary R.N., Colle C.F. III, Grundy F.J., O'Callaghan D.J.;
Tampoing the termini and intron of the spliced immediate-early
transcript of equine herpesvirus 1.";
J. Virol. 63:5101-5110(1989).
C. I. FUNCTION: THIS IE PROTEIN IS A MULTIFUNCTIONAL PROTEIN CAPABLE
OF MIGRATING TO THE NUCLEUS, BINDING TO DNA, TRANS-ACTIVATING
C. PTHR. VIRAL GENES, AND AUTOREGULATING ITS OWN SYNTHESIS.
IS SUBCELLULAR LOCATION: NUCLEUS OF INFECTED CELLS.
C. PTH: A LONG STRETCH OF SERINE RESIDUES NAY BE A MAJOR SITE OF
PHOSPHORYLATION.
C. I. SIMILARITY: BELONGS TO THE ICP4/IE140/IE180 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Grundy F.J., Baumann R.P., O'Callaghan D.J.;
"DNA sequence and comparative analyses of the equine herpesvirus type
                                                                                                                                                                                                                                                                                                                           01-AUG-1990 (Rel. 15, Created)
1-AUG-1990 (Rel. 15, Last sequence update)
01-FEB-1994 (Rel. 28, Last annotation update)
Trans-acting transcriptional protein ICP4 (155 kDa immediate-early
------GISDATAPAWPPGGED --- PGTTPPGHSVP--VPATELGST 172
                                       Length 1487;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; J04366; AAA46099.1; -.
EMBL; M30498; AAA66554.1; -.
PIR; A33764; EDBEE1.
InterPro; IPR005206; Herpes ICP4 C.
InterPro; IPR005206; Herpes ICP4 N.
Pfam; PF03585; Herpes ICP4 C; 1.
Pfam; PF03585; Herpes ICP4 C; 1.
Early protein; Transcription; Nuclear protein.
DNA-binding; Phosphorylation; Nuclear protein.
DNA-binding; Phosphorylation; Nuclear protein.
SER-RICH.
SER-RICH.
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1487 AA; 154716 MW; 044E39A570608A6B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Equine herpesvirus type 1 (strain Kentucky A) (EHV-1).
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Alphaherpesvirinae; Varicellovirus.
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                                                                                                                                                                                                                                                        STANDARD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 47 AGASSPAPRTALQPQESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVG---LVSWR 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           409 ARACSPEPR-----EEGRGAGLGVAAGETAGWGVGSEEGRGERRAKLIGEAGPPRVQARR 463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   353 STRGROTPAVOPAPRS----LARRPCGRAAAVSAPPSSRSRGGRRDPRLPAAPRAAPAQ 408
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Pfam; PF00097; zf-33HC4; 1.

SMART; SM00184; RING, 1.

PROSITE; PS00184; ZF_RING_2; 1.

PROSITE; PS00089; ZF_RING_2; 1.

Transcription regulation; Trans-acting factor; Activator; Zinc-finger; DNA-binding; Early protein; Ring-TYPE.

ZN FING 13 52 RING-TYPE.

DOMAIN 284 331 ASP/GLU-RICH (ACIDIC).

SEQUENCE 676 AA; 67701 MW; 9BB0683C9BFCA65D CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . VITO1. 66:2763-2772(1992).
-!- PTM: THE STRONGLY ACIDIC REGION MIGHT SERVE AS A TRANSCRIPTIONAL
ACTIVATION DOMAIN, POSSIBLY REGULATED THROUGH PHOSPHORYLATION BY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
MEDLINE=2219360; PubMed=1313901;
MIRTH U.V., Fraefel C., Vogt B., Vlcek C., Paces V., Schwyzer M.;
"Immediate-early RNA 2.9 and early RNA 2.6 of bovine herpesvirus 1
are 3' coterminal and encode a putative zinc finger transactivator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44;
                                                                                                                                                                                                                                              1-APR-1993 (Rel. 25, Created)
1-APR-1993 (Rel. 25, Last sequence update)
1-GCT-2001 (Rel. 40, Last annotation update)
rang-acting transcriptional protein ICPO (P135 protein) (IER
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Best Local Similarity 29.9%; Pred. No. 3.8;
Matches 60; Conservative 14; Mismatches 83; Indels 4
                                                                                                                                                                                                                                                                                                                                                                                  Bovine herpesvirus type 1 (strain X22).
Viruses, dsDNA viruses, no RNA stage; Herpesviridae;
Alphaherpesvirinae; Varicellovirus.
NCBI_TaxID=31519;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -!- SIMILARITY: Contains 1 RING-type zinc finger.
                                              130 KVIILSPGISDA-TAPAWPPGEDPGTTPPGHSVPVP 165
                                                                                       -----SDIETCPGSPQP-EFPSSASPGGGSPAP 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; M84464; AAA46061.1; -. PIR; A38209; EDBE22. HSSP; P28990; ICHC.
                                                                                                                                                                                                     STANDARD;
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16-OCT-2001
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                                                                                                                                                                                           February 5, 2004, 17:55:39 ; Search time 31.3472 Seconds (without alignments) 1522.933 Million cell updates/sec
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966
1 MRKGPRSLRGRDAPAPTPCV......ATELGSTELVTTKTAGPEQQ 185
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                               OM protein - protein search, using sw model
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1: Sp_archea:*
2: sp_bacteria:*
3: sp_tung:*
4: sp_tung:*
5: sp_invertebrate:*
5: sp_mammal:*
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sp_rodent:*
sp_vinus:*
sp_vinus:*
sp_vinus:*
sp_unclassified:*
sp_vinus:*
sp_bacteriap:*
sp_archeap:*
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Perfect score:
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No.
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Q9aryO oryza sativ O15450 homo sapien	pseu	Ogdbd5 mus musculu	Q991e5 rubella vir		m sum		Q8s212 oryza sativ		sel	Q969h7 homo sapien	mus	Q92744 homo sapien	OMO!	STILL S	BUE	OHO	ST.	OHO	ОЩО	OHO	Q911c8 streptomyce	Q8n6y3 homo sapien	ОПО	ОЩО	O88699 mus musculu
Q9ARY0 015450	Q8UZ11 Q91YM9	Q9DBD5	Q991E5	0000187	OBBZYO	OAZM60	Q8S2L2	Q8VHF2	Q9ZR75	Q969H7	064213	092744	092745	Q921Z4	008817	OSIXOO	029109	Q8NA81	000960	9NG960	Q9L1C8	Q8N6Y3	014818	014819	088699
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107.5									104	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103	103	103	103	103	102.5	102.5	102.5	102
17	0 7 0 0	21	22	20.0	7 7 7	26	27	28	53	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

RESULT OBR4WB	t 68					
e s	BR4W8	PRELIMINARY;	PRT;	175 AA.		
2E1	01-JUN-2002	(TrEMBLrel. 21,	Creat			
i i	01-JUN-2002	(TrEMBLrel. 21, (TrEMBLrel. 21,	Last	sequence update/ annotation update)		
E C	TRAF3 binding	protein.				
3 0	Eukarvota: Metazoa:	etazoa: Chordata:		Craniata: Vertebrata: Euteleostomi;	omi;	
8	Mammalia; Eutheria;			Sciurognathi; Muridae; Murinae;	Mus.	
× ×	NCBI_TaxID=10090;	:0600				
R.P	SEQUENCE FROM N.A.	M N.A.				
æ	Mizuno K., Irie S.,	Sato	-A.;			
RT	"Identificat	"Identification of novel TR	AF3 bindi	TRAF3 binding protein, T3BP, which increases	ncreases	
E H	cellular F-a	cellular F-actin content.";		,		
RL	Submitted (F)	EB-2001) to the	EMBL/Gen	Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.		
됐 당	EMBL; AF3502	EMBL; AF350257; AAL83914.1; -		B64EFF4B52FE93B1 CRC64:		
y i						
ğ	Query Match					
Mat	Best Local Similarity Matches 101; Conser	Conservative	9.	.es 55; Indels	16; Gaps	19
ò	6 RSL	RGRDAPAPTPCVPAE	CFDLLVRHC	KSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVG	ALOPOESVG	65
DP DP	9 RSQ	: RSRDSSVPTQCNQTE	CEDPLVRNC		ALQPOB	62
à	66 AGA	GEAALPLPGLLFGAP	ALLGLALVL	66 AGAGEAALPLPGLLFGAPALLGLALVLALV-LVGLVSWRRRORRLRGASSAEAPDGDKDA	SAPDGDKDA	124
q	63		ALLGLILAL	GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS	PDTSEGV	114
ઠે	125 -PE	PLDKVIILSPGISDA	TAPAWPPPG	-PEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPPGHSVPVPATELGSTELV	TTKTAGPE	183
eg Q	115 QQE	: : SLENVFVPSSETPHA	SAPTWPPLK	QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE	TTKTAGPE	174
ઠે	184 0 184	84				

QBNFN3

RESULT 2 Q8NFN3

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114 SAEA-POGDKDAPEPLDKVIILSPGISDATAP-----AWPPPG-----EDPGT 155
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  79 SAIPAPGAVTPTAVPTPGAAVPAPATPTPPAAPGSAIPAP------GAA 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           282 ADAIDALGAH---FGPLKTPAPAP----SPAPGPAPAPAPAPAPAPAPAPAPAPG---- 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 82 APALLGLALVLALVLGLVSWRRRQRRLRGASSAEAPD-GDKDAPEFLDKVIILSPGISD 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        330 ------GPGPRPAPAPGAGFRPSPAP------GPGPRP 354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22 AECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVGAGAGEAALPLPGLLFG 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     35 ĠSAVPAPGGAVPP-----TVTNG--PTPQAPPAPGAAVPAPATPIPP-----AAPG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10 GRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALOPQESVGAGAG
                                                                                                                                          SEQUENCE FROM N.A.
STRIN=20516 of Svalofs Karat;
STRIN=2051058; PubMed=905782;
MEDLINE=97210758; PubMed=905782;
Talpalensuu J., Falk A., Ek B., Rask L.;
"Myrosinase-binding proteins are derived from a large wound-inducible and repetitive transcript.";
Eur. J. Biochem. 243:605-611(1997).
HSSP; P18674; JJOT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      56; Indels 69; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAIN-STA-314 / AJ 12310 / DSM 44549 / JCM 11189;
Kawarabayasi Y., Yamazaki J., Hino Y., Kikuchi H., Nakamura Y.,
Ikeo K., Suzuki M., Mashima J., Itoh T., Yamagishi A., Nishio Y.,
Judia Y., Sugimoto S.;
"The entire genomic sequence of Corynebacterium efficiens YS-314.";
Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
BRJL, ABOOS223; BAC19464.1; -.
Hypothetical protein.
BRJC Gomplete proteome.
SEQUENCE 609 AA; 61385 NW; D127080D3874A578 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             141 ATAPAMPPPGEDPGTTP---PG---HSVP--VPATELGSTELVTTKTAGP 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           355 APAPA-PAPGOGPRPAPGPAPGOGPHPAPAAAPGISATPAPAPTITKIGP 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12.2%; Score 117.5; DB 10; Length 552; 28.8%; Pred. No. 0.14; Live 5; Mismatches 59; Indels 57;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 12.2%; Score 117.5; DB 16; Length 609; Best Local Similarity 27.4%; Pred. No. 0.16; Matches 52; Conservative 13; Mismatches 56; Indels 69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Corynebacterium efficiens.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Corynebacteriaceae; Corynebacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR001229; Jacalin_lectin.
Pfam; PF01419; Jacalin; 3.
NON TER 1 1 1 1 1 2 2270 MW, SFES1A3718FBD0FA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical protein.
eurosids II; Brassicales; Brassicaceae; Brassica.
NCBI_TaxID=3708;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=152794;
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R InterPro; IPR003599; Ig.
R InterPro; IPR003599; Ig.
R InterPro; IPR003599; Ig.
R InterPro; IPR003598; Ig. Cs.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       108 ----RLRGASSAEAP--DGDKDAPEPLDKVIILSPGISDATAP-AWPPPGEDP----GT 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                95 GALDRKAAAAAGEAGAWGCDREPP------AAGPRALGPPAEEPLLAANGT 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4 RRAPRR-SGRPGP-------RADRAGSAARSSPPLPLLLL 38
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP----- 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  096343;
01-FEB-1997 (TrEMBLrel. 02, Created)
01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-OGT-2002 (TrEMBLrel. 22, Last annotation update)
Myrosinase-binding protein related protein (Fragment).
Brassica napus (Rape)
Brassica, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bukaryoča, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12.2%; Score 118; DB 4; Length 348; 28.3%; Pred. No. 0.081; Live 16; Mismatches 51; Indels 70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         348 AA; 36997 MW; 15568C6260C5635C CRC64;
                                                                                                                                                                                                                                                                                                      01-0CT-2002 (TrEMBLrel. 22, Created)
01-0CT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
                                                                                                                                                                                                                                     348 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                Neuregulin 1 isoform GGF2 (Fragment)
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SMART; SM00408; IGc2; 1.
PROSITE; PS50835; IG_LIKE; 1.
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Best Local S:
Matches 54
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RESULT 5

Q9EWE2

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92 GQPTISEGPGTSVLPTPSEGLSTSGPPTISKGLCTSVTLAA----SEGRNTSRPPTSSEE 147
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         71 PADVPGSDVPQG----PSDS-QILQGLCASEGPSTSVLPTSAEGPSTFVPPTISEASSAS 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60 POESVGAGAGEAALPLP--GLLFGAPALLGLALVLALVLVGLVSWRRRORRLRGASSAEA 117
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60 PQESVGAGAGEAALPLP--GILFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEA 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 PRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRT----ALQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               37 PADVPGSDVPQG----PSDS-QILQGLCASEGPSTSVLPTSAEGPSTFVPPTISEASSAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     118 PDGDKDAPEPLDKV--IILSPGISDATAPAWPP-------PGEDPGT----TP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 PRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRT----ALQ
                                                                                             the chromosome X that are differentially
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90; Indels
                  SEQUENCE FROM N.A.

Dong X., Chen W.;

Dong X., Chen W.;

Identification of genes in the chromosome X that are di
expressed (MAR-2002) to the EMBL/GenBank/DDBJ databases.

EMBL; AF490507; AAM08354.1; -.

InterPro; IPR02190; MAGE.

PROSITE; PS50838; MAGE; 2.
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                                                                                                                                                                                                                                                                                                                                                 957 AA; 103253 MW; E09F9161384CC2B5 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-WAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical protein KIAA1587 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                 DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                     11.9%; Score 115; DB
ilarity 26.1%; Pred. No. 0.4;
Conservative 23; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     206 EGPGTSVPLAATEGLSTSVQATPDEGP 232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             code for large proteins in vitro.";
DNA Res. 7:273-281(2000).
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InterPro; IPR002190; MAGE.
Pfam; PF01454; MAGE; 2.
PROSITE; PS50838; MAGE; 2.
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[1]
SEQUENCE 1
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   SPREFFRRS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         104 RRORRIRGASSAEAPDGDKDAPEPLDKVIILSPGISDATAPAWP---PPGEDPG----- 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      122 TPTAVPTPGSAIPTP--GAAVPAPGVATPSAPGASIPTPGAAMPTPGTATPAPGAAAPGA 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MKGAAGGGPADRAGAEA-DMGARHEAGDGRDTGPRPAPGGVPGTEALLAAALRAESAGTE 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 LRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   49; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=A3(2) / M145;
MEDLINE=21996410;
PubMed=12000953;
Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,
Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neil S.,
Rabbinowitsch E., Rajandream M.A., Rutherford K., Rutter S.,
Rabbinowitsch E., Rajandream M.A., Rutherford K., Rutter S.,
Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
Hopwood D.A.;
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01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-JUR-2003 (TrEMBLrel. 23, Last annotation update)
10-MRR-2003 (TrEMBLel. 23, Last annotation update)
Hepatocellular carcinoma-associated protein HCAl.
Homo sapiens (Human).
Eukaryota, Merazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'Complete genome sequence of the model actinomycete Streptomyces
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Streptomyces coelicolor.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
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Nature 417:141-147(2002).
BENBL; AL939121; CACI7653.1; -.
Hypothetical protein; Complete proteome.
SEQUENCE 306 AA; 29828 MW; FCG7F6652FD0480B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                   01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical protein SC04865.
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                                                                                                                                                                                                                                                                                                                       306 AA
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                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                           TPPGHSVPVP 165
                                                                                                                                          TIPGSAVPAP 189
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Query Match

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RESULT 8

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185 IPAPAPVYSAPAPVYSAPAPV----- 215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                64 VGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKD 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                GNAIPAPGGAIPTPAKTEQDAVPPTVAAKLPVPGSSIPAPGRALPTPVAPGGSVPAPRAS 133
             "Complete genomic sequence of Corynebacterium glutamicum ATCC 13032."; Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.

EMBL, AP005283; BAC00224.1; InterPro; IPR002285; Prich extensn.

PRINTS; PR01217; PRICHEXTRNSN.

Complete protecome; Hypothetical protein.

SEQUENCE 635 AA; 66081 MM; ADFC4B8CE943C4EE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          117 APDGDKDAPEPLDKVIILSPGIS--DATAPAWPPPGE----DPGTTPPGHSVPVPAT 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         167 -PIPGTAIPVPGSATPVPAPGVSAPGASVPSIPVPGSVTPPAPGISAPGGALPTPGS 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 RDAPAPTPC-----VPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTA-LOPQES
                                                                                                                                                                                                                                                                                                                                                                                                   10 GRDAPAPTPCV--PAECFDLLVRHCVACGL----LRTP---RPKPXA-GASSPAPRTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58 LOPOESVGAGGAALPLPGL-LFGAPALLGLALVLALVTAVGLVSWRRRQRRLRGASSAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=Berkeley;
Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
Stapleton M., Chavez C., Dorsett V., Dresnek D., Farfan D., Frise E.,
George R., Gonzalez M., Guarin H., Kronmiller B., Li P., Liao G.,
Miranda A., Mungall C.J., Nunoo J., Pacleb J., Paragas V., Park S.,
Patel S., Phouanenavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
                                                                                                                                                                                                                                                                        DB 16; Length 635;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Drosophila melanogaster (Fruit fly).
Eukaryota, Metazoa, Arthropoda, Hexapoda, Insecta, Pterygota, Neoptera, Endopterygota, Diptera, Brachycera, Muscomorpha, Ephydroidea, Drosophilidae, Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 124 APEPLDKVIILSPGISDATAPAWPPPGEDPGTTP-PGHSVPVPA 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        216 APEYL-----PPVQDLPAPAPAPVYSAPAPAPAVYSAPAPA 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                     62; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MAR-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  285 AA; 28614 MW; 66BA69FA334E4C3D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch 11.4%; Score 110.5; DE Similarity 26.8%; Pred. No. 0.26; 44; Conservative 12; Mismatches
                                                                                                                                                                                                                                                                     11.6%; Score 112.5; DE 27.7%; Pred. No. 0.41; iive 19; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       285 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUN-2002 (TrEMBLrel. 21,
01-JUN-2002 (TrEMBLrel. 21,
01-MAR-2003 (TrEMBLrel. 23,
                                                                                                                                                                                                                                                                                                       Local Similarity 27.7% hes 49; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BCDNA: RE20756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patel S., Ph
Celniker S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
QBSXU6
                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SON SERVE SE
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SORRERE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          :|||| ::| || ::| || ::| || 434 KLRGAQGPLGPDMBSPLPPP--PLSLLRPG----GAP--PPPPKNPARLMALALAERAQQ 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----VGAGAGEA-ALPLPGILFG---APALLGLALVLALVLVGLVSWRRROR 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 374 LAVSVPPAVLELLGAGGAPASATPTPALSPGRSLRPHLIPLLLRGAEAPLTDACQOEMCS 433
                                                                                    182 P--STSVPPTASEVPSTSLPPTPGEGTSTSVPPTAYEGPSTSVVPTPDEGPSTSVLPTPG 239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 GRDAP--APTPCVPAECFDLLVRHCVACGLLRTPRPKPXA----GASSPAPRTALQPQES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      328 GDPAPPASPAPASAP-------PPRVTPQAISPRGPISPASPALDISEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    108 RIRGASSAEAPDGDKDAPEPLDKVIILSPGISDATAPAWPPGEDP-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            71; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Duesterhoeft A., Lauber J., Mewes H.W., Gassenhuber J., Wiemann S.; Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; All37579; CAB70821.1; -. HSSP; Q07960; LRGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11.9%; Score 114.5; DB 4; Length 862; 27.0%; Pred. No. 0.39; ative 16; Mismatches 75; Indels 71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CGI2830.
Corrnebacterium glutamicum (Brevibacterium flavum).
Bacteria; Actinobacteria; Actinobacteridae; Actinobacteriles; Corynebacterineae; Corynebacterineae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -----GTTPPGHSVPVP---ATELGSTELVTTKTAGP 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            486 VAEQQSQQECGGTPPASQSPFHRSLSLEVGGEPLGTSGSGPP 527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     862 AA; 90295 MW; ODE275EB8CDB4A76 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical membrane protein Cg12830.
                                                                                                                                                                                                                                                                                                                                                                                                                                        01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OKT-2003 (TrEMBLrel. 23, Last annotation update)
01-MAR-2003 (TremBLrel. 23, Last annotation update)
PKFZPQ43A1010.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           635 AA
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STRAIN=ATCC 13032 / DSM 20300 / NCIB 10025;
                              PDGDKDAPEPLDKV - - IILSPGISDATAPAWPP-
                                                                                                                                                        158 -- PGHSVPVPATELGSTELVTTKTAGP 182
                                                                                                                                                                                                                  240 EGPGTSVPLAATEGLSTSVQATPDEGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR000198; RhodAP.
Pfam; PF00620; RhodAP; 1.
Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=1718;
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SEQUENCE
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09NT23;
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REPRESENTE SERVICE SER
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MEDINE-ECOLOGOGY R.A.

MEDINE-ECOLOGOGY R.A.

Medin B.D. Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,

Adams M.D., Celniker S.E., Richards S., Ashburner M., Henderson S.N.,

Adams M.D., Celniker S.E., Richards S., Ashburner M., Henderson S.N.,

B. Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,

Man K.H., Doyle C., Baxter E.G., Helt G. Nalson C.R., Gabor G.L.,

Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C.R., Gabor G.L.,

Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C.R., Gabor G.L.,

Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,

Ballew R.M., Basu A. A., Baxendale J., Bayraktarogul L., Beasley E.M.,

Beeson K.Y., Bence P.V., Berman B.P., Bhandari D., Bolshakov S.,

Bortham M.R., Bouch T., Butler H., Cadieu E., Center A., Chandra I.,

R. Burtis K.C., Busam D.A., Bullake C., Perraz C., Ferriac C., Ferraz C.,

Abril M. Cawley S., Dahlke C., Davemport L.B., Davies P.,

Buttis K.C., Busam D.A., Bullake C., Ferraz C., Ferriac S., Pleischmann W.,

R. Bartis N.L., Harvey D., Heiman T.J., Hernandez T.R., Hernandez T.R.,

Abodon K., Doug L.E., Downes M., Dugan-Rocha S., Dunkov B.C.,

B. Bartis N.L., Harvey D., Heiman T.J., Well M.H., Ibegwam C.,

Allahi M., Kalush F., Karpen G.H., Kez Z., Kenningon J.A., Ketchum K.A.,

An Hostin D., Houston K.A., Meland T.J., Well M.H., Ibegwam C.,

Allahi M., Kalush F., Karpen G.H., Kez Z., Kenningon J.A., Ketchum K.A.,

An Kalush F., Karpen G.L., Kraft C., Kraft C., Kraft C., Melson D.,

Merkulov G., Milshina N.V., Karpen G.H., Re Z., Kenningon J.A., Melson D.L.,

Melson D.R., Woll M., Wurphy B., Murphy L., Murphy D., Hall S.,

Relanct S.M., Wood M., Wurphy B., Murphy L., Murphy C., Murphy L.,

Relanct S.M., Wood M., Wurphy B., Wenter E., Wang A.H., Wang X.Y.,

Mund Z.Y., Wassarman D.A., Weiner E., Wang A.H., Wang X., Yen C., Stapheron M., Strong R., Stape B.C., Stapherot M., Strong W., Zhong W., Zhong W., Zhong W., Zhong W., Zhon O., Zhao Q., Zhao Q., Zhao Q., Zhao Q., Zhao Y., Wallabe R.A., Werler E., 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE PROM N.A.

A Celniker S.B., Adams M.D., Kronmiller B., Wan K.H., Holt R.A.,

Buazon J., An H., Baldwin D., Banzon J., Beeson K.Y., Busam D.A.,

A Banzon J., An H., Ealdwin D., Banzon J., Beeson K.Y., Busam D.A.,

Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,

A Dodson K., Drestt V. Doup L.E., Doyle C., Dresnek D., Farfan D.,

Ferriera S., Frise E., Galle R.F., Garg N.S., George R.A.,

A Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,

A Lbegwam C., Jallali M., Xruse D., Li P., Mattel B., Moshrefi A.,

A Anthorn T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunco J.,

A Pacleb J., Paragas V., Park S., Patel S., Pfeiffer B.,

Phouanenavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,

A Stapleton M., Strong R., Svirskas R., Tector C., Tyler D.,

Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;

R. Sequencing of Drosophila melanogaster genome.";
                                                                                                                                                                                                                                                                                                                                                                                                                    Drosophila melanogaster (Fruit fly).

Bukaryota, Metazoa, Arthropoda, Hexapoda, Insecta, Pterygota, Neoptera, Endopterygota, Diptera, Brachycera, Muscomorpha, Ephydroidea, Drosophilae, Drosophila.
                                                                                                                                                                                                                                (TrEMBLrel. 23, Created)
(TrEMBLrel. 23, Last sequence update)
(TrEMBLrel. 23, Last annotation update)
                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Science 287:2185-2195(2000).
                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                01-MAR-2003
01-MAR-2003
01-MAR-2003
                                                                                                                                                                                                                                                                                                                                                              CG31626-PA.
                                                                                                                                                    QBINT9
QBINT9;
                                                                       RESULT 11
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184
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           64 VGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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Rhabditidae, Peloderinae, Caenorhabditis.
                                                      Mistra S., Crosby M.A., Matthews B.B., Bayraktaroglu L., Campbell K., Mistra S., Crosby M.A., Matthews B.B., Brochnik S.E., Smith C.D., Thradecky P., Huang Y., Kaminker J.S., Prochnik S.E., Smith C.D., Tupy J.L., Bergman C., Berman B., Carlson J.W., Celniker S.E., Clamp M., Drysdale R., Emmert D., Frise E., de Grey A., Harris N., Senmiller B., Marshall B., Millburn G., Richter J., Russo S., Searle S.M.J., Smith E., Shu S., Smutniak F., Whitfield E., Ashburner M., Gelbart W.M., Rubin G.M., Mungall C.J., Lewis S.E.; Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Adams M.D., Celniker S.E., Gibbs R.A., Rubin G.M., Venter C.J.; Submitted (WAR-2000) to the EWBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    57;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        124 APEPLDKVIILSPGISDATAPAWPPPGEDPGTTP-PGHSVPVPA 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     216 APEYL-----PPVQDLPAPAPAPVYSAPAPAPAPVYSAPAPA 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                / Match 11.4%; Score 110.5; DB 5; Length Local Similarity 26.8%; Pred. No. 0.26; nes 44; Conservative 12; Mismatches 51; Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Flybase;
Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases.
EMBL, AE003669; AAN11105.1; -.
SEQUENCE 285 AA; 28554 MW; 66BIC35B38FE5D2C CRC64;
Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Latreil P., Woesner J., Harrison M.;
"The sequence of C. elegans cosmid H06104.";
Submitted (MRR-1999) to the EMBL/GenBank/DDBJ databases.
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Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AC006651; AAF39870.3; -
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-0CT-2002 (TrEMBLrel. 22, Created)
01-0CT-2002 (TrEMBLrel. 22, Last seq
01-MAR-2003 (TrEMBLrel. 23, Last ann
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SEQUENCE FROM N.A.

STRAIN=306 / ATCC 13902 / XV 101;

MEDLINE=22022145; PubMed=12024217;
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NCBI_TaxID=92829;
01-JUN-2001 (TrEMBLrel. 17, 01-MAR-2003 (TrEMBLrel. 23,
                                                                            Putative membrane protein.
SCO4929 OR SCK13.21C.
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Best Local Similarity 34.5.
Local 47; Conservative
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AC 08PXX
AC 08PXX
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DT 01-0C
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    DDT BELL READ BE
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                                                                                                                                                                                                                                                                                                                                                                                                                                         68 AGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKDAPEP 127
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   72 NLLDYKWHKEPLOOCN----PDG-----PLGAAV-----GAAGAGWGRPGSPPAAPP 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRPKPXAGASSPAPRTALOPOESVGAGAGEAALPLPGLLFGAPALL---GLALVLALVLV 97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Uchimura K., Muramatsu H., Kadomatsu K., Fan Q., Kurosawa N., Mitauoka C., Kannagi R., Habuchi O., Muramatsu T.;
"Molecular cloning and characterization of an N-acetylglucosamine-6-0-
sulforransferase.";
J. Biol. Chem. 273:22577-22583(1998).
EMBL; ABOI1452; BAA32138.1;
EMBL; ABOI1452; BAA32137.1;
EMBL; ABOI1451; BAA32137.1;
                                                                                                                                                                                                                                                                                8 LRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVGAG
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0.55;
thes 61; Indels 30; Gaps
                                                                                                                                                                                                   29; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              128 LDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGP 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   171 ------KPA-PKPDPKPDPKPDPKPDPVPAKPVSPPVIVPIDSIVP 209
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Mammalia; Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                       Length 625;
                                                                                                                                                                                                   Indels
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                                          CCB727C72CF84495 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-NOV-1998 (TrEMBLrel. 08, Last sequence update) 01-DEC-2001 (TrEMBLrel. 19, Last annotation update) N-acetylglucosamine-6-0-sulfotransferase long form.
                                                                                                                                                                                                   79;
                                                                                                                       DB 5;
                                                                                                                  Query Match
11.4%; Score 110.5; DE
Best Local Similarity 24.6%; Pred. No. 0.59;
Matches 43; Conservative 24; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    158 PGHS-----VPV--PATELGSTELVTTKTAG 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 115 RAHSRMDPRTPYRPPAAGVGAVPAAAGSAG 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    221 AA.
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InterPro; IPRO00863; Sulfotransferase.
Pfam; PF00685; Sulfotransfer; 1.
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                                          69471 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-NOV-1998 (TrEMBLrel. 08, 01-NOV-1998 (TrEMBLrel. 08, 01-DEC-2001 (TrEMBLrel. 19
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        l protein.
625 AA; 6
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Hypothetical
SEQUENCE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  41
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088276 088276

RESULT 13 088276

Q9AD79; Q9AD79

RESULT 14 Q9AD79

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89 ALVLALV-LVGLVSWRRRQRRLRGASSAEAPDGD----KDAPEPLDKVIILSPGISDATAP 144
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              39 RIPRPKPXAGASSPAPRIALOPOESVGAG-----AGEAALPLPGLLFG---APALLGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       71 RDPSPDP---ATAPAAGTVGEPS---GAGPSATSAMGGLSGSPGPGLIPGLAPAPSATGP
                                                                                                                                                                                                                                                                                                                                                                                                                    for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Taylor K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=21996410; PubMed=12000953; MEDLINE=21996410; PubMed=12000953; Mentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L., Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H., Earper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M., Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S., Cronin A., Fraser T., Larke L., Murphy L., Oliver K., O'Neil S., Rabbinowitsch E., Rajandream M.A., Rutherford K., Rutter S., Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K., Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
                                                                                                                                                                                                                                                                                                                              Redenbach M., Kieser H.M., Denapaite D., Eichner A., Cullum J., Kinashi H., Hopwood D.A., As Set of ordered cosmids and a detailed genetic and physical map the 8 Mb Streptomyces coelicolor A3(2) chromosome."; Mol. Microbiol. 21:77-96(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2)."; Neture 417:141-147(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Xanthomonas axonopodis (pv. citri).
Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 16; Length 221;
SCO4929 OR SCK13.21C.
Streptomyces coelicolor.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; AL939121; CAD30919.1; -.
InterPro; IPR002965; P rich extensn.
PRINTS; PR01217; PRICHEXTENSE.
Hypotherical protein; Complete proteome.
SEQUENCE 221 AA; 21600 MW; 5EDE3A6C31AFCE89 CRC64;
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Last annotation update)
                                                                                                          Streptomycineae, Streptomycetaceae, Streptomyces NCBI_TaxID=1902;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11.2%; Score 108.5; DE
32.9%; Pred. No. 0.29;
:ive 9; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          575 AA
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RA da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R., Radagio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Alaneida N.F., R.A. Alves L.M.C., Go Amaral A.M., Bertolini M.C., Camargo L.E.A., Camarotte G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P., R.A. Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T., R.A. Faria J.B., Ferreira R.C.C., Gruber A., Formighieri B.F., Franco M.C., Greggio C.C., Gruber A., Ratsuyama A.M., Kishi L.T., Leite R.P., Lemos B.C., Moon D.H., Ratsuyama A.M., Kishi L.T., Leite R.P., Lemos M.C., Oliveira V.R., Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R., Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F., Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D., R.A. Trindade dos Santos M., Truffi D., Tsai S.M., White F.F., Fort secticities M.A., Truffi D., Tsai S.M., White F.F., E. Comparison of the genomes of two Xanthomonas pathogens with differing R. InterPro; IPRO02508; Amidase 3.

REBL, AEOISO; Amidase 3.

REBL, AEOISO; Amidase 3.

REPRINTS; PRO02068; Prich extensn.

PRINTS; PRO0114; Antifreeze 1.

PRINTS; PRO012065; Prich extensn.

PRINTS; PRO012065; PRO012065; Prich extensn.

PRINTS; PRO012065; PRO012065; PRO0120665; PRO01206665; PRO0120665; PRO01206
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Query Match
Best Local Similarity 26.0%; Pred. No. 0.66;

Matches 50; Conservative 13; Mismatches 33; Indels 46; Gaps 7,

Qy 14 PAPTPCVPARCFDLL----VRHCVACGLLRTPREVEXAGASSPAPRTALQPOESVGAGAG 69

Db 192 PPPAPSVPASAMPTVTQAPVTTIATG-VPTPRPATSATTGAPAPTGVAGNTPNRAAGAA 250

Qy 70 BAALPLPGLLFGAPALIGIALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKDAP--- 125

Db 251 -AAVFSGAVVAGSSAAAAAILNGGSAPMGATSGNAGAIAPNSASGGVAAAGDDDLFPRPV 309

Qy 126 --------EPLDKVIILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATELGS 171

172 TELVTTKTAGPE 183

Š

g

310 LPSEASRIKMAPGMRPL--VVAIDPGHG------GQDPGAMGP----TGX 347

348 REKDVTLAVGRE 359

Search completed: February 5, 2004, 18:00:48 Job time : 33.3472 secs

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Amino acid sequenc
Human JST576 (BAFF
Human BAFF recepto
Human BAFF recepto
Human BAFF recepto
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Human Ztnfr12 prot
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Human Ztnfr12 rece
                                                                                                                                                                       5, 2004, 17:49:14; Search time 38:5417 Seconds (without alignments) 761.888 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SIDSI/GGGdata/geneseq_gensecq_embl/AA1994.DRT:
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| SIDSI/GGGdata/geneseq_gensecq_embl/AA1995.DAT:
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| SIDSI/GGGdata/geneseq_gensecq_embl/AA2002.DAT:
| SIDSI/GGGdata/geneseq_gensecq_embl/AA2002.DAT:
| SIDSI/GGGdata/geneseq_gensecq_embl/AA2002.DAT:
                                                                                                                                                                                                                                                                                                                                966
1 MRRGPRSLRGRDAPAPTPCV......ATELGSTELVTTKTAGPEQQ 185
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| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1980.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:*
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1107863
GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1107863 segs, 158726573 residues
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Maximum Match 100%
Listing first 45 summaries
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ABB81483
AAE35227
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AAE22268
AAE22269
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AAE22270
                                                                                                                  OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match Length
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MAFF MAFF Icid Tunfr BAFF	e IgG-k 12-tcs- BAFF-R BAFF-R BAFF-R	* * * * * * * * * * * * * * * * * * *	1 BAFF-R: 1 BAFF-R: 1 BAFF-R: 1 BAFF-R: 1 BAFF-R: 1 BAFF-R: 1 BAFF-R:	Lated p 7-R:FC vth fac ces vir nt E. nt E. al grow
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ALIGNMENTS

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Human; BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; TNF; Tumour Necrosis Factor; autoimmune disease; immunosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; renal; rheumatoid arthritis; systemic lupus erythematosus; amyloidosis; multiple myeloma; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening; 555576
                                                                                                                                                                                                                                                                                                                                                                   /note= "Alternative splice acceptor site"
                                                                                                                                                                                                                                                                                                                                                                                                                                            105..108
/note= "Stop transfer signal"
                                                                                                                                                                                                                                                                                                                                                                                                             73..100
/label= Transmembrane_domain
                                                                                                                                                                                                                                                                                                                          19..35
/note= "Four cysteine motif"
                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Hydrophobic region"
                                                                                                      Human mature JST576 (BAFF-R) protein.
                                                                                                                                                                                                                                                                                                        Location/Qualifiers
              AAE22242 standard; Protein; 185 AA
                                                                         25-JUL-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                 ..100
                                                                                                                                                                                                                                                                                                                                                     Misc-difference
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                                                                                                                                                                                                                                                                                                                                                                                    Region
AAE22242
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TMF) family, which is associated with the expression of Decells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune diseases, which can be treated or prevented by BAFF-R, include systemic lugus erythematosus, rheumatoid arthritis, mysethenia gravis, autoimmune haemolytic anaemia, idiopathic thrombocytopaenia purpura, Chagas' disease crave's disease, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomenionomytris. Plasma cells disorders e.g., multiple myselmen, Waldenstrom's, macroglobulinaemia, heavy-chain disease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in screening assays, in detection assays (chromosomal mapping, tissue typing or forensic biology), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens that modulate BAFF antibodies, or in the prosecting decenting drugs or compounds that modulate anti-BFFR antibodies, or in consonant and procession.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGAASSPAPRTALQP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                        New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98.9%; Score 955; DB 23; Length 185; 98.4%; Pred. No. 7e-73; cive 0; Mismatches 3; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence is human mature JST576 (BAFF-R) protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; Fig 2d; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              disorders, or renal disorders
                                                                                                                                                  18-SEP-2000; 2000US-233152P.
21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
                                                                                                         06-SEP-2001; 2001WO-US28006.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 98.4
Matches 182, Conservative
                                                                                                                                                                                                                                                                                                                 Ambrose CM, Thompson JS;
                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-362428/39.
N-PSDB; AAD35409.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GPEQQ 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GPEQQ 185
                                                                                                                                                                                                                                                                   (BIOJ ) BIOGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 185 AA;
                     WO200224909-A2
                                                                28-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
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The present sequence represents a human tumour necrosis factor receptor designated Ztnfr12 (1). (1) has cytostatic, immunosuppressive, dermatclogical, antihilanmanatory, neuroprotective, antidiabetic, antidiabetic, antidiabetic, antidiabetic, antidiabetic, antidiabetic, nephrotropic and hypotensive activities and can be used in gene therapy. (1) can be used for inhibiting, in a mammal, the activity of a ligand that binds Ztnfr12 (e.g. ZTNF4), for treating disorders and disease associated with B lymphocytes, activated B lymphocytes or resting B lymphocytes, and for inhibiting the proliferation of tumour cells. (1) is useful for treating autoimmune disorders such as systemic lupus erythematosus, myasthenia gravis, multiple sclerosis, insulin dependent diabetes mellitus, asthma, rematoid arthritis, bronchitis, emphysema and end stage renal failure or renal disease such as glomerulonephritis, vasculitis, chronic lymphoid leukaemis, nephritis, and pyelonephritis, and for treating renal neoplasms, multiple myelomas, light chain neuropathy, or myloidosis, hypertension, large vessel disease, graft rejection and Czohn's disease, graft rejection and Czohn's disease. (1) is useful for modulating the immune system, for regulating B cell responses and charled the multiple mylonia production, and for modulating T and B cell communication. Human Ztnfr12 is located to chromosome 22q13.2.
                                                                                                                                                                           Human, Ztnfr12; tumour necrosis factor receptor; cytostatic; immunosuppressive; dermatological; antinflammatory, antidiabetic; networpertective; antinfheumatic; antianthritic; antiasthmatic; nephrotropic; hypotensive; gene therapy; Blymphocyte; tumour; autoimmune disorder; systemic lupus erythematosus; myasthenia gravis; multiple sclerosis; insulin dependent diabetes mellitus; asthema; rheumatoid arthritis; bronchitis; emphysema; renal disease; lymphoma; glomerulonephritis; renal neoplasm; multiple myeloma; amyloidosis; light chain neuropathy; hypertension; large vessel disease; graft versus host disease; graft rejection; Crohn's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel isolated human tumor necrosis factor receptor polypeptide, te
Ztnfr 12, useful for treating autoimmune disorders, emphysema, end
stage renal failure or renal disease and lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Grant FJ;
                  ABB81483 standard; Protein; 184 AA
                                                                                                                                              Human Ztnfr12 protein SEQ ID NO:2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3; Page 133; 154pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-NOV-2000; 2000US-246449P.
20-DEC-2000; 2000US-257131P.
28-JUN-2001; 2001US-301715P.
29-AUG-2001; 2001US-315565P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-NOV-2001; 2001WO-US47018.
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                                                                                                  02-SEP-2002 (first entry)
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N-PSDB; ABN89426.
                                                                                                                                                                                                                                                                                                                                                                                                                               chromosome 22q13.2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
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                                                           ABB81483;
ABB81483
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184 AA;

Sequence

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renal diseases (e.g. glomerulonephritís), bronchitis, inflammation,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 35; Fig 6B; 153pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABP97721 standard; Protein; 184
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-AUG-2001; 2001US-310114P. 30-APR-2002; 2002US-377171P.
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                                                                                                                                                         Sequence
                                                                                                                                                                                                                    Query Match
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Matches
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ABP 97721

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                                                                 1;
                                                                                                                                                                                                                                                 QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120
                                                                                                                                                                                                                                                                                                  QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 119
                                                                                                                                                                                                                                                                                                                                                                                                                  120 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTYKTA 179
                                                                                                                                                                                                                                                                                                                                                                       DKDAPEPLDKVIILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 180
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                                                                                                                            9
                                                                                                                                                                                   59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Transmembrane activator; calcium modulator; nephrotropic; antibacterial; TACI; tumour necrosis factor-like protein; ZTNF2; ZTNF4; immunoglobulin; anaemia; gene therapy; cytostatic; antilniflammatory; immunoglobulin; glomerulonephritis; asthma; bronchitis; graft rejection; septic shock; dermatological; neuroprotective; cyclophilin ligand-interactor; human; autolimune disease; systemic lupus erythematosus; multiple sclerosis; diabetes mellitus; rheumatoid arthritis; renel disease; inflammation; Ztnff12; receptor.
                                                                                                                                                                         1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKP-AGASSPAPRTALQP
                                                                                                                        1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP
                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ligand-interactor (TACI)-immunoglobulin fusion protein, for treating cancer or diabetes, comprises a TACI receptor group and an
                                                                 ;;
   Score 954.5; DB 23; Length 184;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Transmembrane activator and calcium modulator and cyclophilin
                                                              Indels
                                Pred. No. 7.7e-73;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Column 136-137; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAE35227 standard; Protein; 184 AA.
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0
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98.88;
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                             Similarity 99.5
34; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ZYMO ) ZYMOGENETICS INC.
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N-PSDB; AAD53776.
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                             Best Local Sim:
Matches 184;
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   Query Match
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180
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; TACI; BR3; receptor; tumour necrosis factor ligand; TNF ligand; TALL-1; April; systemic lupus erythematosus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA
                                                                                                                                                                                                                                                                                                                                                                                     1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKP-AGASSPAPRTALQP
                                                                                                                                                                                                                                                                                                                   1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP
                                                                                                                                                                                                                                                        Gaps
graft rejection, anaemia and septic shock. The fusion proteins are also used in gene therapy. The present sequence is human Ztnfr12
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                                                                                                                                                                                                                                                        ;
                                                                                                                                                                                          24; Length 184;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 184;
                                                                                                                                                                                                                                                        Indels
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                                                                                                                                                                                          y Match 98.8%; Score 954.5; DB 24; Local Similarity 99.5%; Pred. No. 7.7e-73; nes 184; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Amino acid sequence of human BR3 receptor.
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preparing a composition for treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human, BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; TNF; Tumour Necrosis Factor; autoimmune disease; immunosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; renal; rheumatoid arthritis; systermic lugue erythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening;
                                                                                                                                                                       DKDAPEPLDKVIILSPGISDATAPAWPPGGETPPGHSVPVPATELGSTELVTTKTA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TMF) family, which is associated with the expression of B-cells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autorimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal
                                                                                                                QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120
                                                                                                                                                                                                     120 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 179
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                                                                           1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKP-AGASSPAPRTALQP
                                                                                                                                  60 QESVGAGAGEAALPI-PGILFGAPALLGLALVLALVLVGLVSWRRRQRRLGSSAEAPDG
                                                        WRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP
                             1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                           Human JST576 (BAFF-R) cDNA spliced version encoded protein.
                             Indels
7.7e-73;
                            0; Mismatches
              Pred. No.
                                                                                                                                                                                                                                                                                                                                      AAE22243 standard; Protein; 266 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-SEP-2000; 2000US-233152P.
21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
            99.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                            184; Conservative
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N-PSDB; AAD35410.
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          Best Local Similarity
Matches 184; Conser
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disorders, inflammation, organ transplantation and HIV. Autoimmune diseases, which can be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthenia gravis, autoimmune haemolytic anaemia, idiopathic thrombocytopaenia purpura, Chagas' disease care anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma cells disorders e.g., multiple myabloma, Waldenstrom's, macroglobulinaemia, heavy-chain disease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodises may further be used in screening assays, in detection assays (chromosomal mapping, tissue typing or foresic biology) predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to raise anti-BFFR antibodies, or in screening drugs or compounds that modulate BAFF-R activity or expression. The present sequence is human mature JSE756 (BAFF-R) cDNA spliced version containing 5' UTR encoded protein.
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Pred. No. 1.1e-72;
0; Mismatches 0; Indels
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us-10-045-574b-27.rag

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AAE22271 standard; Protein; 185 AA.
                     Ambrose CM, Thompson JS;
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                            WPI; 2002-362428/39.
              (BIOJ ) BIOGEN INC.
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Best Local S
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Human; BAPP receptor; BAPP-R; cytostatic; hypotensive; inflammation; TNF; fumour Mecrosis Factor; autoimmune disease; immunosuppressive; cancer; myaethenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; renal; rheumatoid arthritis; systemmic lupus erythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonsphitis; multiple myeloma; chromosomal mapping; tissue typing; drug screening; New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular disorders, or renal disorders /note= "Wild type Pro substituted with Gln" Human BAFF receptor (BAFF-R) mutant, P21Q. Location/Qualifiers 21 Example 17; Page -; 164pp; English. 21-SEP-2000; 2000US-234140P. 13-FEB-2001; 2001US-268499P. 14-AUG-2001; 2001US-312185P. 06-SEP-2001; 2001WO-US28006 (first entry) Thompson JS; WPI; 2002-362428/39. (BIOJ) BIOGEN INC. Misc-difference mutant; mutein. WO200224909-A2 Homo sapiens .8-SEP-2000; 14-AUG-2001; 25-JUL-2002 Ambrose CM, 28-MAR-2002 The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-call activating factor belonging to the Tumour Decreasis Factor [Typ] family, which is associated with the expression of B-cells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune disorders, inflammation, organ transplantation and HIV. Autoimmune beemolytic anaemia, idiopathic thrombocytopaenia purpura, Chagas' disease, cardi-phospholipid syndrome, Wegener's grannibmatosis, poly-arteritis nodes and rapidly progressive glomerulonephritis. Plasma classes, anti-phospholipid syndrome, Wegener's grannibmatosis, poly-arteritis nodes and rapidly progressive glomerulonephritis. Plasma classes, anti-phospholipid syndrome, Wegener's grannibmatosis, poly-arteritis nodes and rapidly progressive glomerulonephritis. Plasma classis, poly-arteritis in disease, nultiple myeloma, Waldenstrom's macroglobulinaemia, monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in screening assays, in detection assays (chromosomal mapping, rissue typing or forensic biology), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to rasis anti-BFR activity or expression. The present sequence is human BAFF-R protein mutant.

The present sequence is not shown in the specification but is derived from human BAFP-R protein mutant.

In fig 2d of the specification. New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular disorders, or renal disorders Example 17; Page -; 164pp; English. 13-FEB-2001; 2001US-268499P

The invention relates to human BAFF receptor (BAFF-R) mucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Nectors as factor (TMF) family, which is associated with the expression of B-cells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourispenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune disorders, inflammation, organ transplantation and HIV. Autoimmune become to be treated or prevented by BAFF-K, include systemic laseases, which can be treated or prevented by BAFF-K, include systemic lasemolytic anaemia, idiopathic thrombocytopaenia purpura, Chagas' disease correction and rapidly progressive glomerulonephritis. Plasma classes, anti-phospholipid synforme, Wegener's granulomatosis, oply-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma classes, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein homologues, and antibodies may further be used in protein homologues, and antibodies may further be used in creening assays, in detection assays (chromosomal mapping, tissue typing are further useful as immunogens to raise anti-BFFR antibodies, or in a screening drugs or compounds that modulate BAFP-R activity or expression. The present sequence is human BAFP-R protein mutant.

Note: The present sequence is not shown in the specification but is delived from human BAFP-R protein mutant.

Note: The present sequence is not shown in the specification but is in fig 2d of the specification. QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120 DKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 180 121 DKDAPEPLDKVÍILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 180 9 61 QESVGAGAGEAALPIPGILFGAPALLGIALVIALVIVGIVSWRRQRRIGASSAEAPDG MRRGPRSLRGRDAPAPTPCNPAECFDLLVRHCVACGLLRTPRPKPAGAASSPAPRTALQP 1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP Gaps ö Score 948; DB 23; Length 185; Pred. No. 2.7e-72; 0; Mismatches 4; Indels 98.1%; 97.8%;

DB 23; Length 185;

98.0%; Score 947;

185 AA;

Sequence Query Match ø

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                                                                                                              OESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120
                                                                                                                                 QESVGAGAGEAALPLPGILFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG 120
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                         Gaps
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(BAFF-R) mutant, V20N/A22T.
                      0; Mismatches
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21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
       97.88;
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                       181; Conservative
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    Best Local Similarity
Matches 181; Conserv
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CC Becells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, treating, preventing or delaying autoimmune diseases, cancer, tumouridenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal diseases, which can be treated or prevented by BAFF-R, include systemic diseases, which can be treated or prevented by BAFF-R, include systemic classes, which can be treated or prevented by BAFF-R, include systemic diseases, anti-phospholipid syndione, Wegener's gravis, autoimmune crave's disease, anti-phospholipid syndione, Wegener's granulomatosis, poly-arteritis modosa and rapidly progressive glomerulonephritis. Plasma calls disorders e.g., multiple myeloma, Walenstrom's macrosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, cannoclonal gammopathy of undetermined significance. The nucleic acids, cor forening assays, in detection assays (ohromosomal mapping, tissue typing or forening assays, in detection assays (ohromosomal mapping, tissue typing or forenic biology), predictive medicine (e.g. diagnostic or prognostic assays; monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to raise anti-BFFR activity or expression. The present sequence is human BAFF-R protein mutant.

Cracening drugs or compounds that modulate BAFP-R activity or expression. The present sequence is not shown in the specification but is characteried as SEQ ID NO: 5 (AAE22242) and shown with the specification.
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21
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Pred. No. 5.9e-72;
0; Mismatches 5;
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Best Local Similarity 97.3%;
Matches 180; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               185 AA;
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Misc-difference
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour becrosis Factor (TWF) family, which is associated with the expression of B-cells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal diseases, inflammation, organ transplantation and HIV. Autoimmune cliseases, inflammation, organ transplantation and HIV. Autoimmune heaving the an be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthemia gravis, autoimmune heaving an anti-phospholipid syndrome, Wegener's granulomatosis, or poly-arteritis nodosa and rapidly progressive glomerulomephritis. Plasma cells disorders e.g., multiple myelome, Wegener's granulomatosis, and heavy-chain disease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies and further be used in correctin protein and antibodies and antibodies or prognostic assays, monitoring clinical trials, or pharmacogenomic). The prise typing or compounds that modulate BAFF-R activity or expression. The present sequence is human BAFP-R protein mutant.

Conference of the present sequence is nown in the specification but is defined that modulate as Day (DA DA DA) and shown conference is now and the protein as BAFP-R activity and shown conference is now and as SEQ ID NO: 5 (AABE2242) and shown conference is now and as SEQ ID NO: 5 (AABE2242) and shown conference in the present sequence is now in the specification and shown conference and an antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 17; Page -; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in fig 2d of the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disorders, or renal disorders
                                                                                                                                                                                            18-SEP-2000; 2000US-233152P.
21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
                                                                                                                                                 06-SEP-2001; 2001WO-US28006
                                                                                                                                                                                                                                                                                                                                                                             Ambrose CM, Thompson JS;
                                                                                                                                                                                                                                                                                                                                                                                                                             VPI; 2002-362428/39
                                                                                                                                                                                                                                                                                                                             (BIOJ ) BIOGEN INC.
                                                                                                28-MAR-2002
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0; Gaps Score 940; DB 23; Length 185; Pred. No. 1.3e-71; 0; Mismatches 5; Indels 97.3%; Best Local Similarity 97.3 Matches 180; Conservative 185 AA; Sequence Query Match

9 1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP 1 WRRGPRSLRGRDAPAPTPCNQAECFDLLVRHCVACGLLRTPRPKPAGAASSPAPRTALQP

QESVGAGAGEAAL PLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG

61

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120

GPEQQ 185 181

업 ઠે

181 GPEOO 185

/note= "Wild type Pro substituted with Gln"

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Tumour Necrosis Factor; autoimmune disease; îmmunosuppressive; cancer; myssthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; renal; rheumatoid arthritis; systemic lupus erythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening;
                                                                     BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; TNF;
                                                      Human BAFF receptor (BAFF-R) mutant, V20N/P21Q/A22T.
       AAE22267 standard; Protein; 185 AA.
                                                                                                                           mutant; mutein.
                                      25-JUL-2002
                      AAE22267;
AAE22267
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sapiens. Ношо

'note= "Wild type Val substituted with Asn" /note= "Wild type Pro substituted with Gln" /note= "Wild type Ala substituted with Thr" Location/Qualifiers Misc-difference 20 Misc-difference 21 Misc-difference 22

WO200224909-A2

28-MAR-2002

18-SEP-2000; 2000US-233152P. 21-SEP-2000; 2000US-234140P. 13-FEB-2001; 2001US-268499P. 14-AUG-2001; 2001US-312185P. 06-SEP-2001; 2001WO-US28006.

(BIOJ) BIOGEN INC.

Thompson JS;

Ambrose CM,

WPI; 2002-362428/39.

human BAFF receptor proteins and nucleic acids, useful for thing, preventing or delaying e.g. autoimmune diseases, cancers, writed genetic disorders involving B-cells, cardiovascular disorders, or renal disorders treating, inherited

Example 17; Page -; 164pp; English.

The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TNF) family, which is associated with the expression of B-cells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disoaders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune disorders, inflammation, organ transplantation and HIV. Autoimmune be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthemia gravis, autoimmune commonytic anaemia, idiopathic thrombocyteopaemia purpura, Chagas' disease care, disease, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma calls disorders e.g., multiple myeloma, Waldenstrom's, macroglobulinaemia, heavy-chain disease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in

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or forensic biology), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to raise anti-BFFR antibodies, or in screening drugs or compounds that modulate BAFF-R activity or expression. The present sequence is human BAFF-R protein mutant.

Note: The present sequence is not shown in the specification but is derived from human BAFF-R referred as SEQ ID NO: 5 (AAE22242) and shown in fig 2d of the specification.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tumour Necrosis Factor; autoimmune disease; immunosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; renal; rheumatoid arthritis; systemic lupus erythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening;
                                                                                                                                                                                                                                                                                                                   120
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                                                                                                                                                                                                                                                                                                                                                                                    180
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                                                                                                                                                                                                                                                                       QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDG
                                                                                                                                                                                                                                                                                                                                                                                  DKDAPEPLDKVI I LSPGI SDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA
                                                                                                                                                                                                                                                     1 MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP
                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human BAFF receptor (BAFF-R) mutant, V20N/P21Q/A22T/L27P.
                                                                                                                                                                                                                        6; Indels
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                                                                                                                                                                                      Score 936; DB 23;
Pred. No. 2.8e-71;
0; Mismatches 6;
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2000US-234140P.
2001US-268499P.
                                                                                                                                                                                        96.9%;
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                                                                                                                                                                                                       Best Local Similarity 96.8
Matches 179; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                GPEQQ 185
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                                                                                                                                                           185 AA;
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21-SEP-2000; 2
13-FEB-2001; 2
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                                                                                                                                                         Sequence
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Nectains. BAFF-R is a B-cell activating factor belonging to the Tumour Nectains and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune disorders, inflammation, organ transplantation and HIV. Autoimmune beemolytic anaemia, idiopathic thrombocytopaenia purpura, Chagas' disease Grave's disease, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomeralonaphritis. Plasma cells disorders e.g. multiple myeloma, Waldenstrom's macrosis, only-arteritis nodosa and rapidly progressive glomeralonaphritis. Plasma cells disorders e.g. multiple myeloma, Waldenstrom's macroglobulinaemia, protein, protein homologues, and antibodies may further be used in monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in greening assays, in detection assays (chromosomal mapping, tissue typing or forensic biology), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to raise anti-BFFR antibodies, or in screening drugs or compounds that modulate BAFP-R activity or expression. The present sequence is human BAFP-R protein mutant.

The present sequence is not shown in the specification but is darived from human BAFP-R protein mutant.

Control the specification.
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                                                                                                                                                                                  human BAFF receptor proteins and nucleic acids, useful for
tring, preventing or delaying e.g. autoimmune diseases, cancers,
writed genetic disorders involving B-cells, cardiovascular
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ID ABB78398 standard; Protein; 175 AA.
                                                                                                                                                                                                                                                                                                    Example 17; Page -; 164pp; English
                                                                                                                                                                                                                                                          disorders, or renal disorders
14-AUG-2001; 2001US-312185P.
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                                                                                           JS;
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Les 178; Conservative
                                                                                                                                     WPI; 2002-362428/39.
                                            (BIOJ ) BIOGEN INC
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                                                                                           Ambrose CM,
                                                                                                                                                                                                             treating,
inherited
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Matches
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Ztnfr12 protein SEQ ID NO:13.
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Matches 101;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               66 AGAGEAALPLPGILFGAPALLGLALVLALV-LVGLVSWRRRQRRLRGASSAEAPDGDKDA 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             125 -PEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPE 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               115 QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVG 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTP---DTGHTSSLEPGTALQPQE--- 62
                    Mouse; TRAF3-binding B cell-specific receptor; TRAF3; signal transduction; TNF ligand; cancer; autoimmune disease; apoplexia, viral infection; ALDS; bone disease; transplantation rejection; Alzheimer's disease; ischaemla; rheumatoid arthritis; cachexia.
                                                                                                                                                                                                                                                                                                            TRAF3-binding B cell-specific receptor and encoded gene, applicable in diagnosis of abnormality due to TRAF3-mediated intracellular signal transduction and in screening drugs for e.g. cancer, autoimmune diseases and AIDS
                                                                                                                                                                                                                                                                                                                                                                                             The present sequence represents a murine TRAP3-binding B cell-specific receptor. The polymucleotide and polypeptide sequence of this receptor are useful for disgnosis of abnormality due to TRAP3-mediated intracellular signal transduction and in screening drugs for diseases associated with TNF ligand family and TNF receptor-ligand superfamily e.g. cancer, autoimmune diseases, viral infections like AIDS, bone diseases, transplantation rejection, Alzheimer's disease, ischaemia, rheumatoid arthritis, apoplexia and cachexia.
Amino acid sequence of murine TRAF3-binding B cell-specific receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 42.5%; Score 411; DB 23; Length 175; Best Local Similarity 55.8%; Pred: No. 4.9e-27; Matches 101; Conservative 9; Mismatches 55; Indels 16
                                                                                                                                                                                                                                                                                                                                                                       Claim 1; Page 47-48; 57pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABB81489 standard; Protein; 175 AA.
                                                                                                                                                      28-FEB-2002; 2002WO-JP01849
                                                                                                                                                                              28-FEB-2001; 2001JP-0055119
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                                                                                                                                                                                                                                                                           WPI; 2002-713516/77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           175 AA;
                                                                                                                                                                                                 (RIKE ) RIKEN KK. (IRIE/) IRIE S.
                                                                                                                                                                                                                                                     Irie S, Sato T;
                                                                                                                                                                                                                 (IRIE/) IRIE S.
(SATO/) SATO T.
                                                                                                                                                                                                                                                                                        N-PSDB; ABV72373
                                                                                                       WO200272827-A1.
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                                                                                 Mus sp.
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The present invention describes a human tumour necrosis factor receptor designated Ztnfr12 (1). (1) has cytostatic, immunosuppressive, designated Ztnfr12 (1). (1) has cytostatic, immunosuppressive, derivated, antidiabetic, and can be used in gene therapy. (1) can be used for inhibiting, in a mammal, the activity of a ligand that binds Ztnfr12 (e.g. ZTNF4), for treating disorders and diseases associated with B lymphocytes or resting B lymphocytes, and for inhibiting the proliferation of tumour cells. (1) is useful for treating autoimmune disorders such as systemic lupus erythematosus, myasthenia gravis, multiple sclerosis, insulin dependent diabetes mellitus, asthma, rheumatoid arthritis, bronchitis, emphysema and end stage renal failure or renal diseases such as sjonerulonephritis, and for treating renal neoplasms, multiple myelomas, lymphomas, light chain neuropathy, or emphasions, myalthemsian, hypertension, large vessel diseases, graft-versus host disease, graft rejection and crohn's disease. (1) is useful for modulating the immune system, for regulating B cell responses and development, for modulating the development of other cells, antibody communication. The present sequence represents mouse Ztnfr12 which is communication. The present sequence represent invention.
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Human, Ztnfr12; tumour necrosis factor receptor; cytostatic; immunosuppressive; dernatological; antiinflammatory; antidiabetic; neuroprotective; antirheumatic; antiarthritic; antiarthmatic; nephrotropic; hypotensive; gene therapy; B lymphocyte; tumour; autoimmune disorder; systemic lupus erythematosus; myasthenia gravis; multiple sclerosis; insulin dependent diabetees mellitus; astromic; rheumatoid arthritis; bronchitis; emphysema; renal disease; lymphoma; glomerulonephritis; vasculitis; chronic lymphoid leukaemia; nephritis; pyelonephritis; renal neoplasm; multiple myeloma; anyloidosis; light chain neuropathy; hypertension; large vessel disease; graft-versus host disease; graft rejection; Crohn's disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Grant FJ;
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20-DEC-2000; 2000US-257131P.
28-JUN-2001; 2001US-301715P.
29-AUG-2001; 2001US-315565P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gross JA, Xu W, Henne RM,
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Grave's disease, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma cells disorders e.g., multiple myeloma, Waldenstrom's, macroglobulinaemia, heavy-chain disease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodises may further be used in screening assays, in detection assays (chronsomal mapping, tissue typing or forensic bloiogy), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to raise anti-BFFR antibodies, or in screening drugs or compounds that modulate BAFF-R activity or expression. The present sequence is murine BAFF-R protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 RSIRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; TACI; BR3; receptor; tumour necrosis factor ligand; TNF ligand;
TALL-1; April; systemic lupus erythematosus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9 RSQRSRDSSVPTQCNQTECPDPLVRNCVSCELFHTP---DTGHTSSLEPGTALQPQE---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66 AGAGEAALPLPGLLFGAPALLGLALVLALV-LVGLVSWRRRQRRLRGASSAEAPDGDKDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  115 QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE
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                                                                                                                                                                                                                                                                                                                                                           Score 411, DB 23; Length 175;
Pred. No..4.9e-27;
9; Mismatches 55; Indels 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Amino acid sequence of murine BR3 receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Yan M;
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                                                                                                                                                                                                                                                                                                                                                           Match 42.5%;
Local Similarity 55.8%;
Les 101; Conservative 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-JUL-2002; 2002WO-US23487.
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Murine, BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; Tumour Necrosis Rector; autoimmune disease; immunosippressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV, human immunodeficiency virus; genetic disorder; cardiovascular; HIV, human immunodeficiency virus; genetic disorder; cardiovascular; TNF; renal; rheumatoria arthritis; systemic lupue erythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening.
                                                                                                  183
                                                                                                                            115 QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE 174
     AGAGEAALPLPGILFGAPALLGLALVLALV-LVGLVSWRRRQRRLFGASSAEAPDGDKDA 124
                                ---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV
                                                                                                  -PEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
70..97
/label= Transmembrane_domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Murine BAFF receptor (BAFF-R) protein.
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21-SEP-2000; 2000US-234140P.
13-FEB-2001; 200IUS-268499P.
14-AUG-2001; 200IUS-312185P.
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N-PSDB; AAD35411.
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New nucleic acid encoding a TACIs or BR3 polypeptide, useful for preparing a composition for treating systemic lupus erythematosus
                                                                                                                                                                                                                                                          present sequence represents a murine BR3 polypeptide.
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specification also describes TACI polypeptides. TACI and BR3 are receptors. Tumour necrosis factor (TNF) family ligands TALL-1 and April bind to the TACI receptor, while TNF family ligands TALL-1 also binds to BR3 receptor. The TACI and BR3 receptor nucleic acid is useful for preparing a composition for treating systemic lupus erythematosus.
                                                                                                                                                                   Sequence 175 AA;
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6 RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQPQESVG 65 Query Match 42.5%; Score 411; DB 24; Length 175; Best Local Similarity 55.8%; Pred. No. 4.9e-27; Matches 101; Conservative 9; Mismatches 55; Indels 16; Gaps

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125 - PEPLDKVIILSPGISDATAPAWPPGGEDFGTTPPGHSVPVPATELGSTELVTKTAGPE 183

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Sequence 2, Appliance 4, Appliance 4, Appliance 6, Appliance 6, Appliance 6, Appliance 13, Appliance 13, Appliance 13, Appliance 19, Appliance 195, Appliance 195, Appliance 7, Appliance 7, Appliance 7, Appliance 7, Appliance 195, A
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Sequence 214, App
Sequence 47, Appl
                                                                                                                                                                                                                                        5, 2004, 18:00:55; Search time 30.8333 Seconds (without alignments) 1256.294 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MRRGPRSLRGRDAPAPTPCV.....ATELGSTELVTTKTAGPEQQ 185
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1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_MBW_PUB_pep:*
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13: /cgn2_6/ptodata/2/pubpaa/USO9E_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/USO9E_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/USO0B_PUBCOMB.pep:*
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19: /cgn2_6/ptodata/2/pubpaa/USO0B_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/USO0B_PUBCOMB.pep:*
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US-10-152-363A-60

US-10-251-947-2

US-10-251-947-4

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US-10-251-947-6

US-10-251-947-6

US-10-251-947-6

US-10-008-063-13

S US-10-008-063-13

S US-10-145-206-195

US-10-145-206-195

US-10-171-343-32

US-10-084-846A-7

US-10-084-846A-7

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US-10-177-293-214
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               801455 seqs, 209382283 residues
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Perfect score:
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equence 2528,	1-094-749-252	12	1003	10.7	Н	44
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equence 4, A	0-038-010-4	12	638	。	93.	42
4	9-925-300-14	9	531	。	٠	41
5	0-156-761-812	12	859	ö	10	40
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Sequence 7, Appl	0-262-439-	12	294	ö	104	38
ģ	0-218-654-2	2	276		0	37
ģ	0-262-439-2	12	276	ö	0	36
'n	1-218-654-2	12	268	ö	0	35
e,	1-262-43	12	268	ö	0	34
ને	0-218-654-3	72	250	٥.	0	33
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4	J-224-999A-	12	2116	ö	0	31
٠.,	0 - 342 - 33	12	960	ä	0	30
ý	3-239-431A-3	12	505	ä		53
φÌ	3-168-097A-5	12	505			58
9	1-156-761-961	15	674	Ϊ	0	27
34	0-156-76	15	298	ä		56
٠.	0-156-761-120	13	682		\circ	52
٠.	9-893-519A-14	Ξ	1023		_	24
	9-946-80	2	418		\rightarrow	23
equence 3,	-795-686-3	თ	418		-	22
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614	9-738-626-661		635		12.	50
878	1-264-04		336			19
47,	1-023-523-47		550		-	18
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Sequence 2, Application US/10008063
| Publication No. US20030992164A1
| GENERAL INFORMATION:
| APPLICANT: Gross, Jane A. APPLICANT: Ku, Wenfeng
| APPLICANT: Henne, Randal M. APPLICANT: Henne, Randal M. APPLICANT: Francis; J. TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor; FILE REFERENCE: 00-103
| CURRENT APPLICANTON NUMBER: US/10/008,063
| CURRENT FILING DATE: 2001-11-05
| NUMBER OF SEQ ID NOS: 46
| SEQ ID NO 2. SEALED FOR Windows Version 4.0
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Best Local Similarity 99.5%; Pred. No. 8.2e-69;
Matches 184; Conservative 0; Mismatches 0
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CRGANISM: Homo sapiens
US-10-008-063-2
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61 QESVGTGSGEVSLPLPGLLFGAPALLGLVLVLALALVLVGLVSWRRRQQRLRGAASTEAPDG 120
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                                                                                                                                                                                                                                                                                                                        ; Sequence 4, Application US/10251947; Publication No. US20030099990A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Homo sapiens
US-10-251-947-4
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ORGANISM: Homo sapiens
US-10-251-947-7
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Best Local Simil
Matches 146; C
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US-10-251-947-7
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Subjection Wo. US2003099990A1
Publication Wo. US2003099990A1
GENERAL INFORMATION:
APPLICANT: Hau, Hailing
TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
FILE REPERSINGE: 01-1160-A
CURRENT APPLICATION NUMBER: US/10/251,947
CURRENT FILEM DATE: 2002-09-20
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patentin Ver. 2.0
                                                                                      RESULT 2
US-10-152-363A-60
US-10-152-363A-60
| Sequence 60, Application US/10152363A
| Publication No. US20030103986A1
| GENERAL INFORMATION:
| APPLICANT: Rixon, Mark W.
| APPLICANT: Rixon, Mark W.
| TILLE OF INVENTION: TACI-Immunoglobulin Fusion Proteins
| FILE REFERENCE: 01-05
| CURRENT FILING DATE: 2002-05-20
| PRIOR APPLICATION NUMBER: 60/293,343
| PRIOR PLICATION UNDER: 60/293,343
| PRIOR FILING DATE: 2001-05-24
| NUMBER OF SEQ ID NOS: 70
| SOFTWARE: RastSEQ for Windows Version 3.0
| IENGTH: 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
US-10-251-947-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GPEQQ 185
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                        180 GPEQQ 184
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LENGTH: 185
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                         61 QESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLFGASSAEAPDG 120
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Publication No. US20030099990A1;
GENERAL INFORMATION:
APPLICANT: HSU, Halling
TITLE OF INVERINCE: 1160-A
CURRENT APPLICATION NUMBER: US/10/251,947
CURRENT FILING DATE: 2002-09-20
NUMBER OF SEQ ID NOS: 14
SOFTAME: Patentin Ver. 2.0
SEQ ID NO 7
LENTH: 171
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                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: HSU, Halling
TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
FILE REPERENCE: 0.1160-A
CURRENT APPLICATION NUMBER: US/10/251,947
CURRENT FILING DATE: 2002-09-20
NUMBER OF SIG
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NAME/KEY: UNSURE
COCATION: (135)
OTHER INFORMATION: "
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LOCATION: (126)
OTHER INFORMATION: O
FEATURE:
NAME/KEY: UNSURE
LOCATION: (127)
OTHER INFORMATION: "
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LOCATION: (134)
OTHER INFORMATION: "
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NAME/KEY: UNSURE
LOCATION: (124)
OTHER INFORMATION: "
OTHER INFORMATION: 0
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LOCATION: (129)
OTHER INFORMATION: OTHER INFORMATION: C
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NAME/KEY: UNSURE
LOCATION: (128)
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IAME/KEY: UNSURE
OCCATION: (130)
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VAME/KEY: UNSURE
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NAME/KEY:
LOCATION:
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                                                                                         DKDAPEPLDKVIILSPGISDATAPAWPPGEDPGTTPPGHSVPVPATELGSTELVTTKTA 180
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                 1 HRGPRSLRGRDAPVPTPCVPTECYDLLVRKCVDCRLLRKSPPKTAAGASSPAPGTALQP
MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAPRTALQP
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Sequence 14, Application US/10551947

Publication No. US2003009990A1

GENERAL INFORMATION:

GENERAL INFORMATION:

TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof

FILE REPERBUCE: 01-11.60-A

CURRENT FILING DATE: 2002-09-20

NUMBER OF SEQ ID NOS: 14

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 14

LENGTH: 186
                                                                                                                                                                                                                                                                                                                                    Sequence 6, Application US/10251947
Publication No. US2003009990A1
GENERAL INFORMATION:
APPLICANT: Heu, Hailing
TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
FILE REPERBNCE: 01-1160-A
CURRENT APPLICATION NUMBER: US/10/251,947
CURRENT FILMS DATE: 2002-09-20
NUMBER OF SEG ID NOS: 14
SOPTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 77.2%; Score 746; DB 15; Length 170; Best Local Similarity 79.3%; Pred. No. 3.4e-52; Matches 146; Conservative 7; Mismatches 17; Indels 1
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ORGANISM: Artificial Sequence
FEATURE:
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US-10-251-947-6
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LENGTH: 170
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US-10-251-947-6
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PEATURE:
NAME/KEY: UNSURE
LOCATION: (136)
OTHER INFORMATION: "Xaa" can be any naturally occurring amino acid,
OTHER INFORMATION: or is absent.
Description of Artificial Sequence: TALL-1R polypeptide derived from the amino acid sequence alignment shown in Figure 8A
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                                                                 FEATURE:
NAME/KEY: UNSURE
LOCATION: (46)
OTHER INFORMATION: "Xaa" can be any naturally occurring amino acid.
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TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                 1 MRRGPRSLRGRDAPVPTPCVPTECYDLLVRKCVDCRLLRKSPPKTXAGASSPAPGTALQP
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                                                                                                                 LOCATION: (138)
COTHER INFORMATION: "Xaa" can be any naturally occurring amino acid,
COTHER INFORMATION: or is absent.
CS-10-221-947-14
                       "Xaa" can be any naturally occurring amino acid, or is absent.
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                                                                                                                                                                                                                                                                          30; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Gross, Jane A.
APPLICANT: Xu, Wenfeng
APPLICANT: Xu, Wenfeng
APPLICANT: Xu, Wenfeng
APPLICANT: Grant, Francis, J.
TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor
FILE REFERENCE: 00-103
CURRENT APPLICATION NUMBER: US/10/008,063
CURRENT FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 46
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                             Score 746; DB 15;
Pred. No. 3.8e-52;
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Pred. No. 2e-29
9; Mismatches
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Publication No. US20030092164A1
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Best Local Similarity 55.8%;
Matches 101; Conservative
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OCCATION: (137)
OTHER INFORMATION: OTHER INFORMATION: O
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Best Local Similarity
                                                                             FEATURE:
NAME/KEY: UNSURE
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Publication No. US20030195156A1
GENERAL INFORMATION:
BAPLICANT: MIN, HOSUNG
APPLICANT: AFU, HAILING
APPLICANT: ZIONG, FEE
TITLE OF INVENTION: PEPTIDES AND RELATED MOLECULES THAT BIND TO TALL-1
FILE REFERENCE: A-743
CURRENT APPLICATION NUMBER: US/10/145, 206
CURRENT PILING DATE: 2002-05-13
PRIOR APPLICATION NUMBER: US 60/290,196
PRIOR FILING DATE: 2001-05-11
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Pred. No. 1.6e-07;
1; Mismatches 5; Indels
                                                                         APPLICANT: Gross, Jane A.
APPLICANT: Xu, Wenfeng
APPLICANT: Henne, Randal M.
APPLICANT: Grant, Francis, J.
IIILB OF INVENTION: Human Tumor Necrosis Factor Receptor FILE REFERENCE: 00-103
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                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/10/008,063
CURRENT FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PSECSEQ for Windows Version 4.0
SEQ ID NO 42
LENGTH: 328
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Ztnfr12-tcs-Fc5.
US-10-008-063-42
Sequence 42, Application US/10008063
Publication No. US20030092164A1
GENERAL INFORMATION:
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84.2%;
                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 OESVGAGAGEAAL 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79 OESVGAGAGEAAL 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            32; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 197
SOFTWARE: Patentin version
SEQ ID NO 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 32; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
US-10-145-206-195
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US-10-271-343-32
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2402 CPVQPRRSAGRRPPSGRRSAARPRGAGAAGTSRRRAPGRPSGTRPSPPPPGAACPRGPTA 2461
                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Stroobant, Paul
APPLICANT: Stroobant, Paul
APPLICANT: Manghetti, Luisa
APPLICANT: Waterfield, Michael
APPLICANT: Marchionni, Mark
APPLICANT: Ghen, Mario
APPLICANT: Hiles, Ian
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
TITLE OF INVENTION: PREPARATION AND USE
CORRESPONDENCES: 189
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-522-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APR-1992
PRIOR APPLICATION DATA:
FILING DATE: 07-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 91 07566.3
FILING DATE: 10-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Bicker-Brady, Kristina
REGISTRATION NUMBER: 04585/00200Q
TELECOMMUNICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.5" Diskette, 1.44 Mb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible Pentium OPERATING SYSTEM: Windows95 SOFTWARE: FastSeq Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/736,019 FILING DATE: 22-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 514
PRIOR APPLICATION NETA:
PRIOR APPLICATION NUMBER: 08/471,833
FILING DATE: 06-UNN-1995
PRIOR APPLICATION NUMBER: 08/036,555
FILING DATE: 24-MAR-1993
PRIOR APPLICATION NUMBER: 09/965,173
PRIOR APPLICATION NUMBER: 07/965,173
PILING DATE: 23-OCT-1992
PRIOR APPLICATION NUMBER: 07/965,173
PILING DATE: 30-UNN-1992
                                                                                                                                                                                                                                                                   Sequence 170, Application US/08736019
Publication No. US20030207799A1
GENERAL INFORMATION:
                                                                                                                       2462 GPPGPPARAGPVAHGSVPGP 2481
                                                             156 TPPG-----HSVPVP 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     E: Clark & Elbing LLP
176 Federal Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Dis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   U.S.A.
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                                                                                                                                                                                                               RESULT 13
US-08-736-019-170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                 g
                                                             δ
                                APPLICANT: STATOWANTIN, MELISSA A.
TITLE OF INVENTION: A STRUCTURED PEPTIDE SCAFFOLD FOR DISPLAYING TURN LIBRARIES
TITLE OF INVENTION: ON PHAGE
FILE REPRENCE: 11669:1160311
CURRENT APPLICATION NUMBER: US/10/271,343
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: US 69/592,695
PRIOR APPLICATION NUMBER: US 60/139,017
PRIOR FILING DATE: 1999-06-14
NUMBER OF SEQ ID NOS: 60
SOFTWARE: Patentin version 3.1
SEQ ID NO 32
LENGTH: 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Protein 2: amino acid sequence encoded by coding strand 2. OTHER INFORMATION: Start codon: gat, Start position: nucleotide 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 12.5%; Score 121; DB 12; Length 19652; Best Local Similarity 30.5%; Pred. No. 4.7; Matches 61; Conservative 8; Mismatches 65; Indels 66; Gaps 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2365 PRRP----GVPRGP---PPPARAARRP--------VRWSGARACPRRCVRRC 2401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  57 ALQPQESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSW------RRRQRRL 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      110 ----RGASSAEAPDGDKDAPEPLDKVII----LSPGISDATAPAWPPPG----EDPGT 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 RRG--PRSIRGRD--APAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAG-ASSPAPRT 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
15.4%; Score 149; DB 12;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 26; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: WEITHAUER, GARRIELE
APPLICANT: WHITHAUER, GARES
APPLICANT: MITHENES, ANEL
APPLICANT: MITHENES, ANEL
APPLICANT: TREZER: ANEL
TITLE OF INVENTION: AVILAMYCIN DERIVATIVES
FILE REFERENCE: 1974-005
CURRENT PELIGON NUMBER: US/10/084,846A
CURRENT FILING DATE: 2003-02-25
PRIOR FILING DATE: 2001-08-24
PRIOR FILING DATE: 2001-08-24
PRIOR FILING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PATENTING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
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ORGANISM: Streptomyces viridochromogenes
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 TPCVPAECFDLLVRHCVACGLLRTPR 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 7, Application US/10084846A Publication No. US20040006026A1 GENERAL INFORMATION:
   Cochran, Andrea G.
Skelton, Nicholas J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: Peptide US-10-271-343-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
US-10-084-846A-7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      110 RGAS------SAEAPDGDKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGH 160
                                                                                                                                                                                                       110 SÁTSPSPAASAVPASGVGSPADGLGLPEAGGGGARRIRTAYTNTQLLELEKEFHFNKYLC 169
                                                                                                                                                                                                                                                         82 APALLGIALVLALVLVGLVSW--RRRQRRLRGASSAEAPDGDKDAPPEPLDKVI-----I 133
                                                                                                                                                                                                                                                                                             170 RPRRVEIAALLDLITERQVKVWFQNRRMKHKRÇTQHREPPDGEPACPGALEDICDPAEEPA 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ----PPPAPVAAAAA 144
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                                                                                                   ---APPAPEFPWMKEKKSAKKPSQ 109
                                                 ---KPXA 47
                                                                                                                                                     81
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  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Lees, Mobert S.
APPLICANT: Lees, Robert S.
APPLICANT: Law, Simon W.
APPLICANT: Law, Simon W.
APPLICANT: Arjona, Anibal A.
TITLE OF INVENTION: NOVEL LOW DENSITY LIPOPROTZIN BINDING
TITLE OF INVENTION: PROTZING AND THEIR USE IN DIAGNOSING AND TREATING
TITLE OF INVENTION: ATHEROSCLEROSIS
FILE REPERBURG: 10579-004001
CURRENT APPLICATION NUMBER: 105/09/976,740
  88;
                                                    5 PRS-LRGRDAPA----PTPCVPAECFDLLVRHCVACGLLRTPRP------
                                                                                                                                                                                                                                                                                                                                                                                                               230 ASPGGPSASRAAWEACCHPPEVVPGALSADPRPLAVRLEGAGASSPG 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 10; Length 550; 0.31;
  Indels
  68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 145 PARAPRAA-----PAGAAATAPPSPG-----PAQPG
                                                                                                                                                     48 GASSPAPRTALQPQESVGAGAGEAALPLPG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   104 RRGATPPAPPRAPRGGPAAAAAPPPTPAPP----
Conservative 15; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 09/616,289
PRIOR PILING DATE: 2000-07-14
PRIOR FILING DATE: 2000-07-14
PRIOR FILING DATE: 1997-11-26
PRIOR FILING DATE: 1997-11-26
PRIOR FILING DATE: 1997-11-27
PRIOR APPLICATION NUMBER: US 60/031,930
PRIOR PILING DATE: 1996-11-27
PRIOR APPLICATION NUMBER: US 60/048,547
PRIOR PILING DATE: 1997-06-03
NUMBER OF SEQ ID NOS: 53
SEQ ID NO 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10; Mismatches
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Similarity 26.7%; Pred. No. C
                                                                                                      66 PRSOKRAEDGPALPPPPPPPPPP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 47, Application US/09976740
Publication No. US20020194633A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Oryctolagus cuniculus US-09-976-740-47
                                                                                                                                                                                                                                                                                                                                                                  134 LSPGISDATAPAW----PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
  56;
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Best Local S
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  Matches
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PPLICANT: Mills, Gordon B.
FILE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
ITLE OF INVENTION: PREVENTION, AND THERAPY OF BREAST CANCER
                                                                                                                                                                                                                                                               55 --RTALQPQESVGAGAGEAALPL-PGLLFGAPALLG----LALVLALVLVGLVSWRRRQR 107
                                                                                                                                                                                                                                                                                                                                                                  108 ----RLRGASSAEAP--DGDKDAPEPLDKVIILSPGISDATAP-AWPPPGEDP----GT 155
                                                                                                                                                                                                                                                                                                                                                                                                                  --- AAGPRALGPPAEEPLLAANGT 139
                                                                                                                                                                                                          -----raqrègsaarsspiriturin 38
                                                                                                                                                                                                                                                                                             39 LGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ 94
                                                                                                                                                        2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP---
                                                                                                         70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 115, DB 15; Length 356; Pred. No. 0.19;
                                                    Query March
12.2%; Score 118; DB 7; Length 422;
Best Local Similarity 28.3%; Pred. No. 0.13;
Matches 54; Conservative 16; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: US 60/299,887
PRIOR PILING DATE: 2001-06-21
PRIOR APPLICATION NUMBER: US 60/301,572
PRIOR FILING DATE: 2001-06-27
PRIOR FILING DATE: 2001-07-18
PRIOR FILING DATE: 2001-07-18
PRIOR FILING DATE: 2001-09-25
PRIOR FILING DATE: 2001-09-25
PRIOR FILING DATE: 2001-09-25
PRIOR FILING DATE: 2002-03-05
PRIOR FILING DATE: 2002-03-05
PRIOR FILING DATE: 2002-03-05
PRIOR APPLICATION NUMBER: US 60/362,585
PRIOR FILING DATE: 2002-03-05
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/17,293
CURRENT FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: US 60/299,887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 214, Application US/10177293
Publication No. US20030124128A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                  95 GALDRKAAAAAGEAGAWGGDREPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rtobagyi, Gabriel
sztai, Lajos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gannavarpu, Manjula
Kamatkar, Shubhangi
Mertens, Maureen
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Ioersch, Sebastian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     eyers, Rachel E
                                                                                                                                                                                                             4 RRAPRR-SGRPGP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   156 TPPGHSVPVPA 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     140 VPSWPTAPVPS 150
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      eric, Funda
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ORGANISM: Homo sapiens
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Best Local Similarity
  US-08-736-019-170
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ALIGNMENTS
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Patent No. 6147190
GENERAL INFORMATION:
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TYPE: PRT
CORGANISM: Homo sapiens
US-08-341-018-52
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US-08-470-335-210
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Sequence 382, App
Sequence 384, App
Sequence 189, App
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Sequence 3, Appli
Sequence 3, Appli
                                                                                                                                            5, 2004, 17:57:39 ; Search time 14.9028 Seconds (without alignments) 525.238 Million cell updates/sec
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Sequence 3, Ap
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1 WRRGPRSLRGRDAPAPTPCV......ATELGSTELVTTKTAGPEQQ 185
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Sequence 17
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1: /cgn2 6/ptodata/1/iaa/PTUS_COMB.pep:*
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(c) 1993 - 2004 Compugen Ltd.
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US-08-470-335-210
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US-08-467-602-384
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US-08-467-602-384
US-08-467-602-387
US-08-469-5558-170
US-08-428-926-3
US-08-428-926-3
US-08-428-926-3
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Maximum Match 100%
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Gapop 10.0 , Gapext 0.5
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Maximum DB
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12.2%; Score 118; DB 3; Length 248;
Best Local Similarity 28.3%; Pred. No. 0.0024;
Matches 54; Conservative 16; Mismatches 51; Indels
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US-08-470-335-226
US-08-470-335-226
US-08-470-335-226
US-08-467-602-303
US-08-467-602-366
US-08-467-602-396
US-08-467-602-399
US-08-467-602-390
US-08-467-602-300
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US-08-467-602-300
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APPLICANT: STOODEARL, PAUL
APPLICANT: MINGHETIL, LUISA
APPLICANT: MINGHETIL, LUISA
APPLICANT: MATERFIELD, MICHAEL
APPLICANT: MARCHIONNI, MARK
APPLICANT: MARCHIONNI, MARK
APPLICANT: CHEN, MARIO S.
APPLICANT: HILES, IAN
TITLE OF INVENTION: PREPARATION AND USE
FILE REFERENCE: 04585/00208
FILE REFERENCE: 04585/00208
FILE REFERENCE: 04585/00208
FILE REFERENCE: 04585/00208
FILE REFIER APPLICATION NUMBER: 08/036,555
EARLIER FILING DATE: 1992-06-06
EARLIER PELLING DATE: 1992-06-09
EARLIER APPLICATION NUMBER: 07/940,389
EARLIER APPLICATION NUMBER: 07/907,138
EARLIER APPLICATION NUMBER: 07/907,138
EARLIER APPLICATION NUMBER: 07/907,138
EARLIER APPLICATION NUMBER: 07/907,138
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR TITLE OF INVENTION: PREPARATION AND USE FILE REFERENCE: 04585/00200B
CURRENT APPLICATION NUMBER: US/08/470, 335F
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: 08/036,555
BARLIER FILING DATE: 1993-03-24
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                           ; Score 118; DB
; Pred. No. 0.002
16; Mismatches
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EARLIER APPLICATION NUMBER: 91 07566.3 GB
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FastSEQ for Windows Version 4.0
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Patent No. 6232286
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Best Local Similarity 28.3%;
Matches 54; Conservative 1
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                                                                                                                                                                                                                                                                                                 ORGANISM: Homo sapiens
US-08-470-335-210
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                                                                                                                                                                                                                                                                                                                             39 LGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ 94
                                                                                                                                                                                                                                                                                                                                                                                   108 ----RIRGASSAEAP--DGDKDAPEPLDKVIILSPGISDATAP-AWPPPGEDP-----GT
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                                                                                                                             70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 207, Application US/08467602C

Patent No. 6444642

GRUERAL INFORMATION:

APPLICANT: SKIAT, Robert

APPLICANT: GAYNIC, David

ITILE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND

TILLE OF INVENTION: David

ITILE OF INVENTION: DISORDERS

FILE REFERENCE: 04585/028003

CURRENT FILING DATE: 1995-06-06

EARLIER APPLICATION NUMBER: 08/209,204

EARLIER APPLICATION NUMBER: 08/209,204

EARLIER APPLICATION NUMBER: 08/0506

EARLIER APPLICATION NUMBER: 08/059,022

EARLIER PILING DATE: 1993-05-06

EARLIER PILING DATE: 1993-05-06
                                                                       Query Match
12.2%; Score 118; DB 3; Length 248;
Best Local Similarity 28.3%; Pred. No. 0.0024;
Matches 54; Conservative 16; Mismatches 51; Indels
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; Pred. No. 0.0024;
16; Mismatches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 420
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 207
                                                                                                                                                                                                                                4 RRAPRR-SGRPGP-------
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                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 28.3%
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US-08-467-602-207
; ORGANISM: Homo sapiens
US-08-470-339-210
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1 Similarity 28.3%; Pred. No. 0.0036; 54; Conservative 16; Mismatches 51; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              38 RRAPRR-SGRPGP-------
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                                                                                                          4 RRAPRR-SGRPGP-------
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Best Local Similarity 28.3%
Matches 54; Conservative
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Best Local Similarity
Matches 54; Conserv
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US-08-467-602-384
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        70;
                                                                                APPLICANT: Sklar, Robert
APPLICANT: Marchionni, Mark
APPLICANT: Marchionni, Mark
APPLICANT: Marchionni, Mark
APPLICANT: Gwynne, David I.
ITILE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND
ITILE OF INVENTION: DEORDERG
FILE REFERENCE: 04585/028003
CURRENT APPLICATION NUMBER: US/08/467,602C
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: 08/209,204
EARLIER APPLICATION NUMBER: 08/059,022
EARLIER PILING DATE: 1993-05-06
NUMBER OF SEQ ID NOS: 420
SOFTWARE: FREUES FALCE Mindows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12.2%; Score 118; DB 4; Length 248; 28.3%; Pred. No. 0.0024; tive 16; Mismatches 51; Indels
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APPLICANT: GOODEAL, ANDREW
APPLICANT: STROGBANT, PAUL
APPLICANT: MINGHETTI, LUISA
APPLICANT: MACHIONNI, MARK
APPLICANT: MACHIONNI, MARK
APPLICANT: CHEN, MARIO S.
APPLICANT: HILES, TAN
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
TITLE OF INVENTION: PREPARATION AND USE
FILE REFERENCE: 04568/002008
CURRENT APPLICATION NUMBER: US/08/470,335F
CURRENT FILING DATE: 1999-03-655
ERALIER FILLING DATE: 1999-03-24
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SOFTWARE: FastSEQ for Windows Version 4.0
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                  se 404, Application US/08467602C
No. 6444642
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Patent No. 6147190
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Matches 54; Conservative
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LENGTH: 349
TYPE: PRT
ORGANISM: Homo sapiens
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ORGANISM: Homo sapiens
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                                                                                                                                                                      55 --RTALQPQESVGAGAGEAALPL-PGLLFGAPALLG----LALVLALVLVGLVSWRRRQR 107
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                                                                                            ------RAQRPGSAARSSPPLPLLLL 38
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                                                    2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP-----
   Gaps
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Patent No. 644642

GENERAL INPORMATION:
APPLICANT: Sklar, Robert
APPLICANT: Gwrnne, David I
TITLE OF INVENTION: DISCRDERS
TITLE OF INVENTION: DATE: 1995-06-06
GURRENT APPLICATION NUMBER: 08/209,204
EARLIER FILING DATE: 1995-06-06
BARLIER FILING DATE: 1994-03-08
BARLIER FILING DATE: 1993-05-06
NUMBER OF SEQ ID NOS: 420
SOFTWARE: FABECEQ for Windows Version 4.0
SEQ ID NO 382
LENGTH: 382
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28.3%; Pred. No. 0.004;
tive 16; Mismatches 51; Indels
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EARLIER FILING DATE: 1999-04-10
NUMBER OF SEQ ID NOS: 226
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  TYPE: PRT
CRGANISM: Homo sapiens
US-08-470-339-189
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US-08-470-339-188
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Best Local S
Matches 54
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12.2%; Score 118; DB 4; Length 405; 28.3%; Pred. No. 0.0043;
TITLE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND TITLE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND TITLE OF INVENTION: DISORDERS FILE REFERENCE: 0458/028003 FOR CURRENT PRILING DATE: 1995-06-06 EARLIER APPLICATION NUMBER: 08/209,204 EARLIER FILING DATE: 1994-03-08 EARLIER FILING DATE: 1994-03-08 EARLIER FILING DATE: 1993-05-06 NUMBER: 08/059,022 EARLIER FILING DATE: 1993-05-06 NUMBER OF SEQ ID NOS: 420 SOFTWARE: FASTSEQ for Mindows Version 4.0
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APPLICANT: MINGHETTI. LUISA
APPLICANT: MATERFIELD, MICHAEL
APPLICANT: MARCHIONNI, MARK
APPLICANT: CHEN, MARIO S.
APPLICANT: HILES, IAN
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
TITLE OF INVENTION: PREPARATION AND USE
FILE REFERENCE: 04588/002008
CURRENT APPLICATION NUMBER: US/08/470,339C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16; Mismatches
                                                                                                                                                                                                                                                                                                                                                                      ; LUCATION: (34) ...(34); OTHER INFORMATION: Xaa is any amino acid US-08-467-602-384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1993-03-24
APPLICATION NUMBER: 07/940,389
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FILING DATE: 1992-06-30
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Patent No. 6232286
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 28.3
Matches 54; Conservative
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                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: VARIANT
LOCATION: (34)...
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          39 IGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ
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                                                                                                                                                                                                                                                                        Query Match
12.2%; Score 118; DB 3; Length 411;
Best Local Similarity 28.3%; Pred. No. 0.0044;
Matches 54; Conservative 16; Mismatches 51; Indels
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; Pred. No. 0.0044;
16; Mismatches 51; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR TITLE OF INVENTION: PREPARATION AND USE CURRENT APPLICATION NUMBER: US/08/470,339C CURRENT FILING DATE: 1995-06-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT FILING DATE: 1995-06-06
EAALIER APPLICATION NUMBER: 08/036,555
EARLIER FILING DATE: 1993-03-24
EARLIER FILING DATE: 1993-03-24
EARLIER FILING DATE: 1992-09-03
EARLIER FILING DATE: 1992-06-30
EARLIER FILING DATE: 1992-06-30
EARLIER FILING DATE: 1992-04-03
EARLIER FILING DATE: 1992-04-03
EARLIER FILING DATE: 1992-04-03
EARLIER FILING DATE: 1992-04-03
EARLIER FILING DATE: 1999-04-10
NUMBER OF SEQ ID NOS: 226
SEGFWARE FRAFSEQ for Windows Version 4.0
SEQ ID NO 189
LENGTH: 411
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SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 188, Application US/08470339C
Patent No. 6232286
GENERAL INFORMATION:
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95 GALDRKAAAAGEAGAWGGDREPP
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2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP-----
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FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Teal, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/POCKET NUMBER: LUD 5250.4
TELECOMMUNICATION INFORMATION:
TELECHONE: (212) 688-9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,569
FILING DATE: 06-UN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAPPLICATION NUMBER: 08/036,555
FILING DATE: 24-WAR-1993
FILING DATE: 23-007-1992
FILING DATE: 23-007-1992
PRIOR APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
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FILING DATE: 30-UUN-1992
PRIOR APPLICATION DATA: 30-TILING DATE: 07/863,703
FILING DATE: 03-APRIL-1992
FRIING PAPLICATION DATA: 07-APPLICATION DATA: 07-APPLICATION DATA: 07-APPLICATION UNMBER: U.K. 91 0756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 170, Application US/08469569
Patent No. 5606032
GENERAL INFORMATION:
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CITY: New York City
STATE: New York
COUNTRY: USA
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                                                                                           4 RRAPRR-SGRPGP---
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Ly
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US-08-469-569-170
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                                                                                                                                                                      -----AAGPRALGPPAEEPLLAANGT 139
55 --RTALOPOESVGAGAGEAALPL-PGLLFGAPALLG----LALVLALVLVGLVSWRRRQR 107
                                                                                                                             ----RLRGASSAEAP--DGDKDAPEPLDKVIILSPGISDATAP-AWPPPGEDP----GT 155
                                               39 LGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ 94
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APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;
APPLICANT: Chen, Maio Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
TITLE OF INVENTION: Preparation and Use
CORRESPONDENCES: 184
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  70;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TRY: USA

COMPUTER READABLE FORM:
MEDIUM TRYED Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
COMPUTER: 24-AMA-1993
FILING DATE: 24-AMA-1993
FILING DATE: 23-OCT-1992
FILING DATE: 23-OCT-1992
FILING DATE: 33-OCT-1992
FILING DATE: 33-OCT-1992
FILING DATE: 30-OTM-1992
FILING DATE: 30-OTM-1993
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 170, Application US/08036555B Patent No. 5530109
GENERAL INFORMATION:
APPLICANT: Goodearl, Andrew; Strook
                                                                                                                                                                      34,266
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CITY: New York City
STATE: New York
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
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Best Local Similarity 28.3
Matches 54; Conservative
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US-08-036-555B-170
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------AAGPRALGPPAEEFLLAANGT 139
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  55 --RTALOPOESVGAGAGEAALPL-PGLLFGAPALLG----LALVLALVLVGLVSWRRROR 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        39 IGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ 94
54
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APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;
APPLICANT: Chen, Maio Su; Hiles, Ian
TITLE OF INVENTION: Preparation and Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUMPA...
ZIP. 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
COMPUTER: TEM
COMPUTER: TEM
COMPUTER: TEM
COUNTY OF TEM
COUNTY
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108 ----RLRGASSAEAP--DGDKDAPEPLDKVIILSPGISDATAP-AWPPPGEDP----GT 155
                                                             55 --RTALQPQESVGAGAGEAALPL-PGLLFGAPALLG----LALVLALVLVGLVSWRRRQR 107
                                                                                        39 LGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ 94
                   -----RAORPGSAARSSPPLPLLLLL 38
                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Goodearl, Andrew; Stroobant, Paul;
APPLICANT: Minghetti, Luisas; Waterfield, Michael; Marchioni, Mark;
APPLICANT: Chen, Maio Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
TITLE OF INVENTION: Preparation and Use
CORRESPONDENCE: 184
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM: MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURENTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURENT APPLICATION DATA:
APPLICATION NUMBER: US/08/249,322A
FILLING DATE: 26-MAY-1994
CLASSIFFICATION: 435
PRIOR APPLICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         U.K. 91 07566.3
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PRICASITICATION DATA:
APPLICATION NUMBER: 08/036,555
PRICA APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,138
FILING DATE: 30-UN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07.K. 91 07566
FILING DATE: 10-APRIL-1991
APTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 34.266
REFERENCE/DOCKET NUMBER: 1UD 250.
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US-08-249-322A-170
Sequence 170, Application US/08249322A
; Patent No. 5716930
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
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INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
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STATE: New York COUNTRY: USA
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                                                                                                                                                                                                                        -----RAORPGSAARSSPPLPLLLLL 38
                                                                                                                                                                                                                                                                                                              39 LGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ 94
                                                                                                                                                                                2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP----
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                                                                                                                                       Gaps
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APPLICANT: Oblescoff, Phyllis L.
TITLE OF INVENTION: SENSORY AND MOTOR NEURON DERIVED FACTOR (SMDF)
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genettech, Inc.
                                                                                                                                     70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12.2%; Score 118; DB 1; Length 422; 28.3%; Pred. No. 0.0045; tive 16; Mismatches 51; Indels
                                                                                        12.2%; Score 118; DB 1; Length 422; 28.3%; Pred. No. 0.0045; tive 16; Mismatches 51; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCMPUTER READBLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: 1EM PC compatible
OPREATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,926
FILING DATE: 25-APR-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENET: 460 Point San Bruno Blvd CITY: South San Francisco STATE: California COUNTRY: USA
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ER: 853D4
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Patent No. 5667780
GENERAL INFORMATION
APPLICANT: Ho, Wel-Hsien
APPLICANT: Osheroff, Phyllis L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 14-NOV-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Lee, Wendy M.
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 85
TELECOMMUNICATION: INFORMATION:
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TELEX: 910/371-7168
INFORMATION FOR SEO ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 28.33
Matches 54; Conservative
                                                                                Query Match
Best Local Similarity 28.3°
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              140 VPSWPTAPVPS 150
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       STRANDEDNESS
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US-08-469-569-170
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                                                                                                                                                                                                                             2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP-----
                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Ho, Wei-Heien
APPLICANT: Osheroff, Phyllis L.
TITLE OF INVENTION: SENSORY AND MOTOR NEURON DERIVED FACTOR (SMDF)
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
                                                                                                                             70;
                                                                          Query Match 12.2%; Score 118; DB 1; Length 422; Best Local Similarity 28.3%; Pred. No. 0.0045; Matches 54; Conservative 16; Mismatches 51; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: patin (Genentech)
CURENT ARP: patin (Genentech)
APPLICATION NUMBER: US/08/428,927
FILING DATE: 25-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb flog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 25-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA: APPLICATON DATA: 08/339517
FILING DATE: 14-NOV-1994
ATTORREY/AGRAT INFORMATION: REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 853D3
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFRAX: 415/225-1994
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95 GALDRKAAAAAGEAGAWGGDREPP
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Patent No. 5756456
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Best Local Similarity 28.33
Matches 54; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               156 TPPGHSVPVPA 166
; TOPOLOGY: linear
US-08-249-322A-170
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US-08-428-927-3
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2 RRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPXAGASSPAP

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-------AAGPRALGPPAEEPLLAANGT 139
                                           55 --RTALQPQESVGAGAGEAALPL-PGLLFGAPALLG----LALVLALVLVGLVSWRRRQR 107
                                                                                                                           108 ----RLRCASSAEAP--DGDKDAPEPLDKVIILSPGISDATAP-AWPPPGEDP----GT 155
                                                                  39 LGTAALAP----GAAAGNEAAPAGASVCYSSPPSVGSVQELAQRAAVVIEGKVHPQRRQQ 94
----RAQRPGSAARSSPPLPLLPLLLL 38
                                                                                                                                                                                                                                                                                                                       Search completed: February 5, 2004, 18:02:09 Job time : 15.9028 secs
  4 RRAPRR-SGRPGP------
                                                                                                                                                       95 GALDRKAAAAGEAGAWGGDREPP-
                                                                                                                                                                                                             156 TPPGHSVPVPA 166
                                                                                                                                                                                                                                                         140 VPSWPTAPVPS 150
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(without alignments) 1282.249 Million cell updates/sec

US-10-045-574B-28 907 1 MGARRLRVRSQRSRDSSVPT......PATELGSTELVTTKTAGPEQ 175 Title: Perfect score: Sequence:

Scoring table:

283308 seqs, 96168682 residues BLOSUM62 Gapop 10.0 , Gapext 0.5 Searched:

283308

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 76:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	B-cell maturation	leukosialin CD43 p	CD43 Lp-3 antigen	KIAA0641 protein -	hypothetical prote	tyrosine kinase re	Ig alpha chain C r	protein-tyrosine k	receptor tyrosine	leukosialin precur		hypothetical prote	•	hypothetical prote		Ig alpha-1 chain C	integrin beta 2 ch	nerve growth facto	kinesin motor prot	receptor tyrosine	receptor tyrosine	Ig alpha-1 chain C	laminin alpha-1 ch	genome polyprotein	hypothetical 12.1	6-phosphogluconola	probable membrane	thrombopoietin - m	hypothetical prote
SUMMARIES	ID	S43486	A43545	152842	T00378	C71529	A53137	S09264	A49508	A48280	S00842	T34433	T34434	PC4397	T16870	H75391	Alhu	832659	JN0006	T30196	I59442	180329	805500	S18253	825123	F65188	D82727	G87018	845330	S59327
	DB	2	~	7	~	~	7	~	~	~	7	0	~	~	7	~	Н	7	Н	7	ď	~	N	0	ď	~	0	7	~	Ŋ
	Length	184	395	395	1207	563	910	339	876	913	378	1032	2232	246	2447	159	353	772	416	1459	183	220	352	3712	177	113	239	293	356	748
d	Query	12.8		10.6				9.4	4.6	9.4		9.4			9.3															
	Score	. 9	96	96	σ	ď	ω.	85.5	ů.	'n.	82	82	82	84.5	4.	84	82.5	'n	82	82	ä	81.5	ä	81	80.5	80	80	80	80	80
	Result No.		CV	М	4	S	w	7	ω	σ	10	11	12	13	14	15	16	17	18	19	. 50	21	22	23	24	25	56	27	28	29

81 GLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQE-----SLENVFVPSSET-- 129

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21 CCNOTECFOPIVRNCVSCELFHTPDTGHTSSLEPGTALOPQEGSALRPDVALLVGAPALL 80 7 QCSQNEYFDSLLHACIPCQL-----RCSSNTPPLTCQRYCNASVTNSVK---GTNAIL

56

TonB protein, prob	Ig alpha chain C r	hypothetical prote	translocation prot	leukosialin precur	hypothetical prote	genome polyprotein	env polyprotein -	macrophage colony-	colony-stimulating	hypothetical prote	genome polyprotein	hypothetical prote	2-succiny1-6-hydro	transducin-like en	N-type calcium cha
F87537	A45966	H70910	C83434	A39822	A70525	S21471	VCVWFS	A31401	835703	T49385	S32745	T49704	F70548	B56695	T45115
~	N	0	N	Н	~	~	Н	Н	-	~	0	N	Н	0	7
240	342	855	262	400	620	369	636	552	552	805	177	242	554	770	2237
8.8	8.8	80	8.7	8.7	8.7	8.7	8.7	9.8	9.8	9.8	8.5	8 .5	8.5	8.5	8.5
79.5	79.5	79.5	79	79	79	78.5	78.5	78	78	78	77.5	77.5	77.5	77.5	77.5
30	31	32	33	34	35	36	37	38	99	40	=	42	43	14	2

ALIGNMENTS

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hypothetical protein CT326 - Chlamydia trachomatis (serotype D, strain UW3/Cx) C.Species: Chlamydia trachomatis C.Species: Chlamydia trachomatis C.Date: 13-Sep-1998 #sequence_revision 13-Sep-1998 #text_change 08-Oct-1999 C.Date: 13-Sep-1998 #sequence_revision 13-Sep-1998 #text_change 08-Oct-1999 R.Stephens, R.S.; Kalman, S.; Lammel, C.J.; Fan, J.; Marathe, R.; Aravind, L.; Mitchell Science 282, 754-759, 1998 A.Mitle: Genome sequence of an obligate intracellular pathogen of humans: Chlamydia tra A.Maccession: C71229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A,Cross-references: GB:AE001305; GB:AE001273; NID:g3328737; PIDN:AAC67919.1; PID:g33287
A,Experimental source: serotype D, strain UM-3/Cx
                                                                                      46 TGHTSSLEPGTALOP-OEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLR 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    557 PGEPLLGLQAASAQEPGC----CPGLPHLCSAQGLAPAPCLVTPSWTETASSGGDHPQA 611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          102 --QLRTASPDTS-----EGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSV 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                612 EPXLATEAEGTTGPRLPLPSVPSPSQEGAPLPSEE---ASAP-----DAPDALPDSPT 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MGARRI----RVRSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGT
10; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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Best Local Similarity 29.5%; Pred. No. 1.7;
Matches 43; Conservative 10; Mismatches 54; Indels 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 57 ALQP----QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 2; Length 1207;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             79; Indels
  36; Indels
                                                                                                                                                                                                        279 TGALTLSGGGKRNGVVDAWAGPARVPDEEATT 310
                                                                                                                                                                    105 TASPDTSEGVQQESLENVFVPSSETPHASAPT 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10.4%; Score 94; DB 2 26.5%; Pred. No. 3; tive 23; Mismatches
  Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PATGGEVSAIKLASALNGSSSSPE 685
  15;
  31; Conservative
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Best Local Similarity
Matches 54; Conserv
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A;Molecule type: DNA
A;Residues: 1-563 <ARN>
                                                                                                                                                                                                                                                                                                                                                                       protein
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                                                                                                  NyAlternate names: large stalogiyoprotein; stalophorin; T-cell surface glycoprotein CD4 C;Species: Mus musculus (house mouse)
C;bate: 06.Nov-1992 #sequence_revision 06.Nov-1992 #text_change 23-Jul-1999
C;Accession: A43545; 812702; Ā45842; 808065
R;Cyster, J.; Somoza, C.; Killeen, N.; Williams, A.F.
Bur. J. Immunol. 20, 875-881, 1990
A;Title: Protein sequence and gene structure for mouse leukosialin (CD43), a T lymphocyt A;Reference number: A43545; MUD:90269342; PMID:2347365
                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: GB:X17018; NID:952891; PIDN:CAA34884.1; PID:952892
R;Dorfman, K.S.; Litaker, W.; Baecher, C.M.; Frelinger, J.G.
Nucleic Acids Res. 18, 4932, 1990
A;Title: The nucleotide sequence of Ly 48 (mouse leukosialin, sialophorin): the mouse hc
A;Reference number: S12702; MUID:90370495; PMID:2144340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Accession: 152842
C;Accession: 152842
R;Shiota, J.; Nishimura, H.; Okamoto, H.; Yu, B.; Hattori, S.; Abe, M.; Okada, T.; Nozaw
Cell. Immunol. 155, 402-413, 1994
A;Title: A unique murine CD43 epitope Lp-3: distinct distribution from another CD43 epit
A;Reference number: 152842; MUID:94236703; PMID:7514104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Molecule type: DNA
;Residues: 1-395 <DDR>
;Residues: 1-395 <DDR>
;Residues: 1-395 <DDR>
;Residues: 1-395 <DDR>
;Residues: 1-395 <DDR
;Residues: 1-395 <DDR
;Racher, C.M.; Dorfman, K.S.; Mattei, M.G.; Frelinger, J.G.
mmunogenetics 31, 307-314, 1990
;Title: cDNA cloning and localization of the mouse leukosialin gene (Ly48) to chromosom
;Reference number: A45842; MUID:90316596; PMID:1973410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46 TGHTSSLEPGTALOP-QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLR 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             228 TSTTSTQDPITTRSPSQESSGM----LLV--PMLIALVVLALVAL--LLLWRQRQKRR 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CD43 Lp-3 antigen - mouse
C;Species: Mus sp. (mouse)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 23-Jul-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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;Residues: 1-395 <RES>
;Cross-references: GB:S70677; NID:g546746; PIDN:AAB30765.1; PID:g546747;
;Superfamily: leukosialin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Residues: 345-383 <BAE>
Cross-references: GB:M30693, NID:g198912; PIDN:AAA39457.1; PID:g198913
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10.6%; Score 96; DB 2; Length 395;
Best Local Similarity 33.7%; Pred. No. 0.56;
Matches 31; Conservative 15; Mismatches 36; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 2; Length 395;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Map position: 7
Superfamily: leukosialin
Reywords: glycoprotein; transmembrane protein
1-19/Domain: signal sequence #status predicted <SIG>
?20-395/Product: leukosialin #status predicted <MMT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               279 TGALTLSGGGKRNGVVDAWAGPARVPDEEATT 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           105 TASPDTSEGVOOESLENVFVPSSETPHASAPT 136
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                                                                                   leukosialin CD43 precursor
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                              Status: preliminary
Molecule type: DNA
Residues: 1-395 < CYS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Molecule type: mRNA
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A;Cross-references: GB:L11315; NID:g403386; PIDN:AAA02866.1; PID:g403387
C;Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discoidin I amino-te.
C;Keywords: ATP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;Species: Homo sapiens (man)
;Accession: 10-Nov-1995 #sequence revision 10-Nov-1995 #text_change 04-Feb-2000
;Accession: A49508; 138358; $37402
;Di Marco, E.; Cutuli, N.; Guerra, L.; Cancedda, R.; De Luca, M.
Biol. Chem. 268, 24590-24295; 1993
;7ittle: Molecular clouing of trkE, a novel trk-related putative tyrosine kinase recept
;Reference number: A49508; MUID:94043265; PMID:8226977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Status: preliminary
A; Motecule types: mRNA
A; Motecule types: mRNA
A; Motecule types: mRNA
A; Residues: 1-876 < LDIA
A; Residues: 1-876 < LDIA
A; Cross-references: EMBL:X74979; NID:g400462; PIDN:CAA52915.1; PID:g400463
C; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discoidin I amino-te.
C; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinase
F; 30-185/Domain: discoidin I amino-terminal homology < DNL>
F; 571-875/Domain: protein kinase homology < KIN>
F; 579-587/Region: protein kinase ATP-binding motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RiJohnson, J.D.; Edman, J.C.; Rutter, W.J.
Proc. Natl. Acad. Sci. U.S.A. 90, 5677-5681, 1993
Ajritle: A receptor tyrosine kinase found in breast carcinoma cells has an extracellula A,Feference number: A48280; MUID:93296201; PMID:8390675
A,Accession: A48280
11;
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                                                                                                                                                                                                                    128 ---SLTCTLRGLKDPKDAVFTWE-----PTNGNEPVQQSPQRDPCGCYSVSSVLP-G 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       438 LWRLHWRRLLSKAE---RRVLEEELTVHLSVPGDTILINNRPGPREP--PPYQEPRPRGN 492
                                                                                           76 CVACHVEHNEVDRYLILPCPDTHSSCPPTSCGEPSLSLQ-----RPDLRDLLLGSDA- 127
                                                                                                                                                                                80 LGLILALTLVGLV----SLVSWRWRQQLRTASPDTSEGVQQESLEN---VFVPSSETPHA 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                      176 CAETWTAGTEFTCTVTHPEIEGSSLTATIRKDTGSLTPPQVHLLPPPSEELALNALVT 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C.Species: Homo sapiens (man)
C.Date: 31-May-1996 #sequence_revision 31-May-1996 #text_change 24-Sep-1999
C.Accession: A48280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    390 PPPTNFSSLE----LEPRGQQPVAKAEGS----PTALLIG--CLVAIILLLLI--IALM
                                                          CVSCELFHT-----PDTGH----TSSLEPGTALQPQEGSALRPDVA-LLVGAPAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      44 PDTGHTSSLEPGTALOPO-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96 SWR--WROQLRTASPDISEGVQQESLENVFVPS----SETPHASAPIWPPLKEDADSAL
65; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        38; Indels
48; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein-tyrosine kinase (EC 2.7.1.112) trkE precursor - human C;Species: Homo sapiens (man)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-185/Domain: discoidin I amino-terminal homology <DN1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A)Status: preliminary, translated from GB/EMBL/DDBJ
A, Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F;608-912/Domain: protein kinase homology <KIN>F;616-624/Region: protein kinase ATP-binding motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9.4%; Score 85.5; DB
30.2%; Pred. No. 12;
tive 19; Mismatches
18; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   receptor tyrosine kinase - human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        39; Conservative
47; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     149 PRHSVP-VP 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                493 PPHSAPCVP 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 39; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Residues: 1-913 <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Accession: A49508
                                                          35
Matches
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/Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discoidin I amino-tem
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Sanchez, M.P.; Tapley, P.; Saini, S.S.; He, B.; Pulido, D.; Barbacid, M.
Proc. Natl. Acad. Sci. 'U.S.A. 91, 1819-1823, 1994
A.Title: Multiple tyrosine protein kinases in rat hippocampal neurons: isolation of Ptk-
A;Reference number: AS3137; MUID:94173920; PMID:8127887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13
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R;Burnett, R.C.; Hanly, W.C.; Zhai, S.K.; Knight, K.L.
EMBO J. 8, 4041-4047, 1989
A;Title: The IgA heavy-chain gene family in rabbit: cloning and sequence analysis of A;Reference number: S09264; MUID: 90076124; PMID:2512120
A;Accession: S09264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96 SWR--WRQQLRTASPDTSEGVQQESLENVFVPS----SETPHASAPTWPPLKEDADSAL 148
                                                                                                                                                         234 SS-----LSAASSPTSEDSDSSRLQLVRVVSSEDSVAFARLYAALNEDMTSSV-RAANP 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      44 PDTGHTSSLEPGTALQPQ-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV 95
94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C.Species: Rattus norvegicus (Norway rat)
C.Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 24-Sep-1999
C.Accession: A53137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Species: Oryctolagus cuniculus (domestic rabbit)
;Date: 29-Jan-1993 #sequence_revision 29-Jan-1993 #text_change 16-Jul-1999
                                                                                                                     95 VSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVP
CVSCELFHTPDTGHTSSLEPGTALQPQEGSALRPDVALLVGAPALLGLILALTLVGLVSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            38; Indels 33; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Accession: A53137
Status: preliminary; translated from GB/EMBL/DDBJ
Molecule type: DNA
Residues: 1-910 «RES>
;Cross-references: GB:L26525; NID:g432480; PIDN:AAA21089.1; PID:g432481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 910;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 339;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Status: not compared with conceptual translation Molecule type: DNA Residues: 1339 cBUR> Superfamily: immunoglobulin C region; immunoglobulin homology Keywords: immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -186/Domain: discoidin I amino-terminal homology <DN1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .5; DB 2; 1
6.7;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     F;605-909/Domain: protein kinase homology <KIN>
F;613-621/Region: protein kinase ATP-binding motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          $; Score 88.5; DE
$; Pred. No. 6.7;
19; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      124-190/Domain: immunoglobulin homology < IMM>
                                                                                                                                                                                                                                              -----ATELGSTELVTTKTA 171
                                                                                                                                                                                                                                                                                                   287 FPFSYVRLILLITICRHTLTTKAA 312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g alpha chain C region - rabbit (fragment)
                                                          CVS----HVPFSPHSQSITPGV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 9.8%;
Best Local Similarity 30.2%;
Matches 39; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                            yrosine kinase receptor - rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         149 PRHSVP-VP 156
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Best Local Similarity
                                                                                                                                                                                                                                              155 VP.
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35
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149 PRHSVP-VP 156

g ò g ò 493 PPHSAPCVP 501

RESULT 10

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mucin 3 T10 - human (fragment)
C;Species: Homo sapiens (man)
C;Species: 10-Nov-1997 #sequence_revision 10-Nov-1997 #text_change 08-Oct-1999
C;Accession: PC4397
R;Van Klinken, B.J.W.; Van Dijken, T.C.; Oussoren, E.; Bueller, H.A.; Dekker, J.; Einer Biochem. Biophys. Res. Commun. 238, 143-148, 1997
A;Title: Molecular cloning of human MUC3 cDNA reveals a novel 59 amino acid tandem repe A;Reference number: PC4395; MUID:97445141; PMID:9299468
A;Cross-references: EMBL;U80846; PIDN:AAC70889.1; GSPDB:GN00028; CESP:K06A9.1a
A;Experimental source: strain Bristol N2; clone K06A9
C;Genetics:
A;Gene: CESP:K06A9.1a
A;Map position: X
A;Introns: 38/1; 75/3; 103/3; 132/2; 158/2; 222/1; 839/1; 849/1; 875/3; 940/2; 966/2; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Gene: CESP:K06A9.la
A;Map position: X
A;Introns: 38/1; 75/3; 103/3; 132/2; 158/2; 222/1; 1088/1; 1367/1; 2039/1; 2049/1; 2075
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      561 V$GSTVSGSTGTSQSTLAS----STATP-GSSSTVP-----SSSSPQPSSQSPAPNTGS 609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Moleddues: 1-2124 cdBL-1-2124 cdBL-1-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         46 TGHTSSLEPGTALOPQEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRT 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          S1S TGSTVTVVPGSSTSPAPSSSPNPS----SSPASTG--STITISGSSSIT----TS50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       561 VSGSTVSGSTGTSQSTLAS----STATP-GSSSTVP----SSSSPQPSSQSPAPNTGS 609
                                                                                                                                                                                                                                                                                                                                                                                                 46 TGHTSSLEPGTALQPQEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRT 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              106 ASPDT---SEGVOQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGS 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      106 ASPDT---SEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGS 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein K06A9.1a - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Accession: T34434
R;Geisel, C.; Gattung, S.
submitted to the EmBL Data Library, December 1996
A;Pescription: The sequence of C. elegans cosmid K06A9.
                                                                                                                                                                                                                                                       Query Match
9.4%; Score 85; DB 2; Length 1032;
Best Local Similarity 28.2%; Pred. No. 16;
Matches 37; Conservative 18; Mismatches 48; Indels 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        48; Indels 28;
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Local Similarity 28.2%; Pred. No. 38;
les 37; Conservative 18; Mismatches 48; Indels :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTPSQTSSQSP 620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               163 TELVTTKTAGP 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    610 TTPSQTSSQSP 620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C, Genetics:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Puckosialin precursor - rat (fragment)

NyAlternate names: leucocyte sialoglycoprotein; sialophorin

Cjopecies: Rattus norvegicus (Norway rat)

Cjopecies: Rattus norvegicus (Norway rat)

Cjopecies: Rattus norvegicus (Norway rat)

Cjopecies: No. Battus norvegicus (Norway rat)

Cjopecies: No. Battus norvegicus (Norway rat)

Cjopecies: No. Battus norvegicus

R;Killeen, N., Barclay, A.N.; Willis, A.C.; Williams, A.F.

EMBO J. 6, 4029-4034, 1987

A;Title: The sequence of rat leukosialin (W3/13 antigen) reveals a molecule with O-linke

A;Reference number: S00842; MUD:88166646; PMID:2965006

A;Recession: S00842

A;Recidues: 1.378 «KIL»

A;Cross-references: EMBL:Y00090; NID:G56573; PIDN:CAA68281.1; PID:G747878

C;Suporfamily: leukosialin; transmembrane protein

C;Reywords: glycoprotein; transmembrane protein

C;Reywords: glycoprotein; transmembrane protein

F;1-7/Domain: signal sequence #status predicted «MAT»
                                                                                                                                                                                                                                    390 PPPINESSLE----LEPRGQQPVAKAEGS----PTALLIG--CLVAILLLLLI--IALM 437
                                                                                                                                                                                                                                                                                                                                    96 SWR--WRQQLRTASPDTSEGVQQESLENVFVPS----SETPHASAPTWPPLKEDADSAL 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 137 KGTSAPPVTVTSSTMTSGPPVATTVSSETSGPPVTMATGSLGPSKETHGLSATIATSSGE 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       197 SSSVAGGTPVFSTKISTTSTPNPITTVPPRPGSS----GMLIUS--MLIALIVVIVIAL 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   92 VSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRH 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    251 --LLLWRQRQKRRTGALTLSRGGKRNGTVDAWAGPARVPDEEATT-----ASGSGGNK 301
                                                                                                                                                                                                                                                                                                                                                                                                     438 LWRLHWRRLLSKAE---RRVLEEELTVHLSVPGDTILINNRPGPREP--PPYQEPRPRGN 492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91
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C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Accession: T34433
R;Geisel, C; Gattung, S.
R;Geisel, C; Gattung, S.
R;Description: The sequence of C. elegans cosmid K06A9.
A;Reference number: Z21525
A;Accession: T34433
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1032 cGE1>
                                                                                                                                                                                          44 PDTGHTSSLEPGTALOPO-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14 RDSSVP--TQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPG---------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           58;
                                                     Length 913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
9.4%; Score 85; DB 2; Length 378;
Best Local Similarity 24.1%; Pred. No. 5.1;
Matches 48; Conservative 19; Mismatches 74; Indels
                                                                                                                      38; Indels
                                                     DB 2;
                                                 Query Match

9.4%; Score 85.5; D.

Best Local Similarity '30.2%; Pred. No. 12;

Matches 39; Conservative 19; Mismatches
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SVPVPATELGSTELVTTKT 170 SSGAPETD-GSGORPTLTT 319

g

26 ----- 36

d ð ò d

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Search completed: February 5, 2004, 18:01:30 Job time : 15.125 secs
         A, Molecule type: DNA
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R;White, O.; Elsen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.J.;
M; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, T.; Zalewski, C.; Ma
S; Smith, H.O.; Venter, J.C.; Fraser, C.M.
Science 286, 1571-1577, 1999
A;Title: Genome sequence of the radioresistant bacterium Deinococcus radiodurans R1.
A;Reference number: A75250; MUID: 20036896; PMID: 10567266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;Status: preliminary; translated from GB/EMBL/DDBJ;
Molecule type: DNA;
Residues: 1-2447 <WUX>;Cesidues: 1-2447 <WUX>;Cesidues: EMBL:U39653; NID:g1049397; PID:g1049400; PIDN:AAB52494.1; GSPDB:GN00; EXperimental source: strain Bristol N2; clone T13H2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Map position: X
A;Introns: 18/3; 135/3; 176/3; 496/1; 693/1; 816/1; 1053/1; 1131/3; 1181/3; 1308/3; 1645
C;Superfamily: RING finger homology
F;158-207/Domain: RING finger homology <RRN>
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                                                        A;Cross-references: DDBJ:AF016694; NID:g2454618; PIDN:AAB71687.1; PID:g2454619
A;Experimental source: intesitne
F;1-46,47-105,106-164,165-223,224-246/Region: repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90 GLVSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHA-SAPTWPPLKEDADSAL 148
                                                                                                                                                                                                                                                                                                                                                        112 VSSEASTLSTTPVDSS----SPVVTS-----TEGTSSLTPTEGTSIATSTPSE 155
                                                                                                                                                                                                                                                                                                                                                                                                                    63 GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLENV 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GT-----PPLTSMPVSTTTVASSETNS-----LSTTPADTRTAV-----TT 191
                                                                                                                                                                                                                                                                                                  8 VRSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEP--GTAL---QPQE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein - Deinococcus radiodurans (strain R1)
C;Species: Deinococcus radiodurans
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 31-Mar-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypothetical protein T13H2.3 - Caenorhabditis elegans
C.Speciese: Caenorhabditis elegans
C.Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 02-Sep-2000
C;Accession: T16870
                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         34; Indels 11; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              123 FVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTEL--VTTKTAGP 173
                                                                                                                                                                                                                                            47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 2447;
                                                                                                                                                                                Length 246;
                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             submitted to the EMBL Data Library, October 1995
A;Description: The sequence of C. elegans cosmid T13H2.
A;Reference number: Z18593
                                                                                                                                                                                                                                            60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
9.3%; Score 84.5; DB 2;
Best Local Similarity 36.0%; Pred. No. 47;
Matches 31; Conservative 10; Mismatches 34;
                                                                                                                                                                             DB 2;
                                                                                                                                                                          ch 9.3%; Score 84.5; Di Similarity 24.9%; Pred. No. 3.5; 43; Conservative 23; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2283 --QQAPAPATPI-AISVATTQVTRPE 2305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          149 PRHSVPVPATELGSTELVTTKTAGPE 174
                                                                                                                                                                          Query Match
Best Local Similarity
Matches 43; Conserva
                                  1-246 <VAN>
A; Molecule type: mRNA
A; Residues: 1-246 < VAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Accession: H75391
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gene: CESP:T13H2.3
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A,Residues: 1-159 <WHI>
A,Cross-references: GB:AE001991; GB:AE000513; NID:g6459223; PIDN:AAF11036.1; PID:g64592
A,Experimental source: strain R1
C;Genetics:
A;Gene DR1464
A;Map position: 1
                                                                                                                                                                                                                                                                                                                   71 ALLVGAPALLG-LILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPSSET 129
                                                                                                                                                                                                                                                                                                                                                                      90
                                                                                                                                                                                                                                                                                                                                                    34 ALLTGAAGVLGRLLIFLPLAALAGGLSYFVASAWRPGQPLDSQAAASQPVSFL---SEPV
                                                                                                                                                                                                                                                         15; Mismatches 50; Indels 16; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                               130 PHASAPTWPPLK------EDADSALPRHSVPVPATELGSTELVTTK 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               91 PTARGPRWRPGKRTAVNLPDTAPTRHADSTVVIAATPQVTTTLDGTDLPSSE 142
                                                                                                                                                                                                         Length 159;
                                                                                                                                                                                                         DB 2;
                                                                                                                                                                                                      Score 84;
Pred. No.
                                                                                                                                                                                                   Query Match
Best Local Similarity 27.7%;
Matches 31; Conservative 1:
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GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.
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OM protein - protein search, using sw model

Run on:

February 5, 2004, 17:49:49; Search time 9.72222 Seconds (without alignments) 846.481 Million cell updates/sec

US-10-045-574B-28 907 1 MGARRLRVRSQRSRDSSVPT......PATELGSTELVTTKTAGPEQ 175 Title: Perfect score: Sequence:

127863 segs, 47026705 residues BLOSUM62 Gapop 10.0 , Gapext 0.5

Scoring table:

127863 Total number of hits satisfying chosen parameters: Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_41:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	nluseum sum 08960	homo	homo	T SUM	P15702 mus musculu	rat					Q9jkv1 mus musculu		Q8fui4 corynebacte				Q92p48 rhizobium m	Q8nrb3 corynebacte		Q00174 drosophila			P16150 homo sapien		P07141 mus musculu		Q9upx8 homo sapien	P51611 mesocricetu	-		P23958 phaseolus v	P72003 mycobacteri	Q9hc84 homo sapien
OI OI	T13C MOUSE	T13C_HUMAN	TR17_HUMAN	TR17 MOUSE	LEUK MOUSE	DDR1_RAT	DDR1_MOUSE	LRBA_HUMAN	DDR1_HUMAN	LEUK_RAT	ADRM_MOUSE	ALC1_HUMAN	PKN2_COREF	TR16_CHICK	ALC1_GORGO	ADRM RAT	COBB_RHIME	METE_CORGL	NCR2_MOUSE	LMA_DROME	6PGL_XYLFA	TPO_MOUSE	LEUK HUMAN	ENV MCFF	CSF1_MOUSE	PRGR_HUMAN	SHK2 HUMAN	HFC1_MESAU	PLM CANFA	TN12 HUMAN	TIPA_PHAVU	PKNF_MYCTU	MUSB_HUMAN
Length DB	175 1	184 1	184 1	185 1	395 1	910 1	911 1	2863 1	913 1	378 1	407 1	353 1	520 1	416 1	353 1	407 1	429 1	745 1	2472 1	3712 1	239 1									6	256 1	w	5703 1
% Query Match I	100.0	45.3	'n	11.2	ö		9.6	9.6	٠.		9.5	•	•	•				8.9	•			•						•	٠	•	8.4	8.4	8.4
Score	907	410.5	116.5	101.5	96	88.5	87.5	87.5	85.5	85	83	82.5	82.5	82	81.5	81	81	81	81	81	80	80	79	78.5	78	77.5	77.5	77.5	77	77	76.5	76.5	76.5
Result No.	1 1 1	7	æ	4	ιŊ	ø	7	α	ወ	10	11	12	13	14	15	16	17	18	19	20	21	. 55	23	24	25	26	. 27	28	29	30	31	32	33

P32927 homo sapien O15055 homo sapien Q6129 mus musculu O95429 homo sapien Q28062 bos taurus P931695 mus musculu P31695 mus musculu Q9um47 homo sapien Q15109 homo sapien Q28173 bos taurus O35674 mus musculu O76906 drosophila
CYRB HUMAN PER2_HUMAN PER2_HUMAN PER9_HUMAN PGCB_BOVIN PGCB_BOVIN NTC3_HUMAN RAGE_HUMAN RAGE_HUMAN RAGE_BOVIN AD19_WOUSE CRM_DROME
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897 1255 3726 457 1187 1964 2321 404 416 920
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76 76 76 78 78 78 78 78 78 78
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ALIGNMENTS

184 AA

PRT;

STANDARD;

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ILISC HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                              ISOId-Q9DBD0-2; Sequence=VSP_006506;
TISSUE SPECIFICTY: Highly expressed in spleen and testis;
TISSUE APECIFICTY: Highly expressed in spleen and testis;
DISEASE: Defects in THYERE In lung and thymis.
DISEASE: Defects in THYERETIS are a cause of severe B-cell
deficiency. B-cell deficient strain A/WySnJ has a 4.7 kb insertion
in the BAFRR gene leading to an altered C-terminus. The mutant RNA
is not detectable. B-cell lymphopoiesis is normal, but the life
span of peripheral B-cells is much reduced.
SIMILARITY: Contains 1 TNFR-Cys repeat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MGD; MGI:1919299; Infrsf13c.
Receptor; Immune response; Signal-anchor; Transmembrane; Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MGARRIRVRSQRSRDSSVPTQCNQTECFDFLVRNCVSCELFHTPDTGHTSSLEPGTALQP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Harless S.M., Lentz V.M., Sah A.P., Hsu B.L., Clise-Dwyer K., Hibert D.M., Hayes C.E., Cancro M.P.; Competition for BLyS-mediated signaling through Bcmd/BR3 regulates peripheral B lymphocyte numbers."; curr. Biol. 11:1986-1989(2001).
-!- FUNCTION: B-cell receptor specific for TNFSF13B/TALL1/BAFF/BLyS.-Promotes the survival of mature B-cells and the B-cell response.-!- SUBCELLUIAR LOCATION: Type III membrane protein (Probable).
           "Functional annotation of a full-length mouse cDNA collection."; Nature 409:685-690(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-LINKED (GLCNAC. ..) (POTENTIAL).
Missing (in 1soform 2).
/FITd=VSP 006506.
28BG/701A02F8B7EF CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (TYPE III MEMBRANE PROTEIN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CYTOPLASMIC FROM TYPE CYS (POTENTIAL) TUPR-CYS (PARTIAL). BY SIMILARITY. BY SIMILARITY.
                                                                                                                                                                                                                                                                Event=Alternative splicing; Named isoforms=2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SIGNAL-ANCHOR
                                                                                                                                                                                                                                                                                                IsoId=09D8D0-1; Sequence=Displayed;
                                                                                  MEDLINE=21614654; PubMed=11747827;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AK373847; AAK91827.1; -.
EMBL; AK008142; BAB25490.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          175 AA; 18798 MW;
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38
35
38
23
143
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22
22
23
133
Hayashizaki Y.;
                                                                                                                                                                                                                                                                                 Name=1;
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RESULT 2 T13C_HUMAN

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Isold-096RJ3-2; Sequence-VSP 006505;
Note-No experimental confirmation available;
Note-No experimental confirmation available;
ISSUE SPECIFICITY: Highly expressed in spleen and lymph node, and in resting B-cells to becaced at lower levels in activated B-cells, resting CD4+ T-cells, in thymus and peripheral blood leukocytes.
                                                                                                                                                                                      TISSUE—B-cell lymphoma;
MEDLINE=2144025; PubMed=11509692;
MEDLINE=2144025; PubMed=11509692;
Thompson U.S., Bixler S.A., Gian F., Vora K., Scott M.L.,
Cachero T.G., Hession C., Schneider P., Sizing I.D., Mullen C.,
Strauch K., Zafari M., Benjamin C.D., Tschopp J., Browning J.L.,
"BAPP-R., a newly identified INF receptor that specifically interacts
                                                                                                                                                                                                                                                                                                                                                            SIGNAL-ANCHOR
(TYPE III MEMBRANE PROTEIN) (POTENTIAL)
CYTOPLASMIC (POTENTIAL).
TNFR-CYS (PARTIAL)
                                     28-PEB-2003 (Rel. 41, Last sequence update)
1-SEP-2003 (Rel. 42, Last annotation update)
Tumor necrosis factor receptor superfamily member 13C (B cell-activating factor receptor) (BAFF receptor) (BAFF-R) (BLyS receptor
                                                                                                                                      Craniata, Vertebrata; Euteleostomi;
Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001368; TNFR C6.
PROSITE; PS00552; TNFR NGFR 1; FALSE NEG.
PROSITE; PS00505; TNFR NGFR 2; FALSE NEG.
Receptor; Immune response; Signal-anchor; Transmembrane;
Alternative splicing; 3D-structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P -> PA (in isoform 2). /FIId=VSP_006505.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Svent=Alternative splicing; Named isoforms=2;
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BY SIMILARITY.

P -> PA (in is
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                            (Rel. 41, Created)
                                                                                                                                     Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PDB; 1MPV; 30-OCT-02.
Genew; HGNC:17755; TNFRSF13C.
MIM; 606269; -.
                                                                                                                                                                                                                                                                                                                       Science 293:2108-2111(2001).
                                                                                                           INFRSF13C OR BAFFR OR BR3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           184
35
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143
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99
                                                                                                                          (Human)
                                                                                                                                                                   NCBI_TaxID=9606;
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119
124
143
                                                                                                                          Homo sapiens
                            28-FEB-2003
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DOMAIN
REPEAT
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63 --GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGVQ 115
                                                                                                                                                                                                                                                          66 GAGEAALPLPGLLFGAPALLGLALVLALV-LVGLVSWRRRQRRLRGASSABAPGDGDKDA- 123
                                                                                                                                                                                                                                                                                                                              116 QESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ 175
                                                                                                                                                                                                                                                                                                                                                         124 PEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPEQ 183
                                                                                                                                      9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHT--PDTGHTSSLEPGTALQPQE---- 62
                                                                                                                                                                 6 RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGASSPAPRTALQPQESVGA 65
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Lióttus B.J., Kim U.J., Sneddon V.P., Kalush F., Brandon R.,
Lióttus B.J., Kim U.J., Sneddon V.P., Kalush F., Brandon R.,
Deslattes Mays A., Cao Y., Xu R.X., Kang H.-L., Mitchell S.,
Eichler E.E., Harris P.C., Venter J.C., Adams M.D.;
"Genome duplications and other features in 12 Mb of DNA sequence from thuman chromosome 16p and 16q.";
Genomics 60:295-308(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Laabi Y., Gras M.P., Carbonnel F., Brouet J.C., Berger R.,
Larsen C.J., Tsapis A.;
Rapis A.;
Rap
                                                                                           Gaps
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MEDLINE=94218235; PubMed=8165126;
Laabi Y., Gras M.P., Brouet J.C., Berger R., Larsen C.J., Tsapis A.;
Laabi Y., Gras M.P., Brouet J.C., Berger R., Larsen C.J., Tsapis A.;
The BCMA gene, preferentially expressed during B lymphoid
maturation, is bidirectionally transcribed.";
Nucleic Acids Res. 22:1147-1154(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=20363816; PubMed=10903733; Harzoglou A., Roussel J.; Bourgade M.-F., Rogier E., Madry C., Inoue J.-I., Devergne O., Tsapis A.; Rouse J.-I., Devergne O., Tsapis A.; "INF receptor family member BCMA (B cell maturation) associates with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                           15;
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MEDLINE-21419161; Pubmed-11528522;
Kawasaki A., Tsuchiya N., Fukazawa T., Hashimoto H., Tokunaga Treresnce of four major haplotypes in human BCMA gene: lack of association with systemic lupus erythematosus and rheumatoid
                                               Length 184;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       002223, Created)
01-JUL-1993 (Rel. 26, Created)
1-JUL-1993 (Rel. 26, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Tumor necrosis factor receptor superfamily member 17 (B-cell
                                                                                           55; Indels
184 AA; 18863 MW; F2BFB98099A27138 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A., AND CHROMOSOMAL TRANSLOCATION. TISSUE-Lymph node, and Peripheral blood leukocytes; MEDLINE-93010984; PubMed=1396583;
                                            Query Match
45.3%; Score 410.5; DB 1
Best Local Similarity 56.1%; Pred. No. 1.1e-28;
Matches 101; Conservative 9; Mismatches 55
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             184 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                maturation protein).
TNFRSF17 OR BCMA OR BCM.
Homo sapiens (Human).
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SEQUENCE FROM N.A. (ISOFORM 1).

SEQUENCE FROM N.A. (ISOFORM 1).

SEQUENCE FROM N.A. (ISOFORM 1).

X MEDLINE-2108566J; PubMed=11217851;

X RAWAI J., Shinagawa A., Shibara K., Yoshino M., Itoh M., Ishii Y.,

A Arakawa T., Hara A., Fukunishi Y., Komo H., Adachi J., Fukuda S.,

A Arawa K., Izawa M., Nishi K., Kiyosawa H., Komo S., Yamanaka I.,

Saico T., Oazazki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,

Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

Radota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

Radota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,

Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,

Blake J., Boffeelli D., Bojunga N., Carninci P., de Bonado M.F.,

Brownstein M.J., Bult C., Fletcher C., Fulita M., Gariboldi M.,

Brownstein M.J., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,

Lyons P., Marchionni L., Mashima J., Mazazelli J., Mondberts P.,

Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,

Sasaki H., Toyo-oka K., Schoenbach C., Saya T., Shihata Y., Storch K.-F.,

Ruzuki H., Toyo-oka K., Wang K.H., Weltz C., Mittaker C., Wilming L.,

Havsehishishi
                                                                                                                                                                                                                                                                                                             8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  81 GLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQE-----SLENVFVPSSET-- 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       57 WTCLGLSLI--ISLAVFVLMFLLRKIS---SEPLKDEFKWTGSGLLGMANIDLEKSRTGD 111
                                                                                                                                                                                                                                                                                                                                                                                                               7 QCSQNEYFDSLLHACIPCQL-----RCSSNTPPLTCQRYCNASVTNSVK---GTNAIL 56
                                                                                                                                                                                                                                                                                                                                                                          21 QCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGTALQPQEGSALRPDVALLVGAPALL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=99061155; PubMed=9846698; Madry C., Laabi Y., Callebaut I., Roussel J., Hatzoglou A., Le Coniat M., Mornon J.P., Berger R., Tsapis A.; 
                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'Functional annotation of a full-length mouse cDNA collection.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nature 409:685-690(2001).
-!- FUNCTION: Receptor for INFSF13B/BLyS/BAFF and INFSF13/APRIL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           130 ----PHASAPTWPPLK-BDADSALPR----HSVPVPATELGSTELVTTKT 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 184;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Tumor necrosis factor receptor superfamily member 17 (B-cell maturation protein).
Mus musculus (Mouse).
INTERLEUKIN 2/BCM ONCOGENE
                                                                                                                                                   /FTId=VAR_012234.
277AF11E2767D932 CRC64;
                                                                                                                                                                                                                                                                                                                 64;
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                          BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
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                                                                                                                                                                                                                                              12.8%; Score 116.5; 29.4%; Pred. No. 0.00 tive 21; Mismatches
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088472;
                                                         DISULFID
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                          DISULFID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 111 DRIFPPRSLEYTVEECTCEDCVKSKP----KGDSD-----HFFPLPAMEEGATILVTTKT 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             117 ----ESLE-NVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKT 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 QCFHSEYFDSLIHACKPC-----HLRCSNPPATCQFY----CDPSVTSSVKGTYTV 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21 QCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGTALQPQEGSALRPDVALLV-GAPAL
Promotes B-cell survival and plays a role in the regulation of humoral immunity. Activates NF-kappa-B and JNK (By similarity). SUBUNIT: Associates with TRAFI, TRAF2, TRAF3, TRAF5 and TRAF6 (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 53; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (TYPE III MEMBRANE PROTEIN) (POTENTIAL)
                                                                                                                                                                             Isoid=088472-2; Sequence=VSP_006507;
-1-TISSUS SPECIFY: Detected in spleen, thymus, bone marrow and heart, and at lower levels in kidney and lung.
-1- SIMILARITY: Contains 1 TNFR-Cys repeat.
                                                        similarity).
-!- SUBCELLULAR LOCATION: Type III membrane protein (Probable)
-!- ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11.2%; Score 101.5; DB 1; Length 185; 29.4%; Pred. No. 0.057; Arive 14; Mismatches 60; Indels 53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Immune response; Signal-anchor; Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EXTRACELLULAR (POTENTIAL).
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TNFR-CYS.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
Missing (in isoform 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (in isoform 2).
SP 006507.
                                                                                                         Event=Alternative splicing; Named isoforms=2;
                                                                                                                                             IsoId=088472-1; Sequence=Displayed;
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36
18
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91
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Alternative splicing.
DOMAIN
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                                                                                                                              Name=1;
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Mus musculus (Mouse). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus

[1] -SEQUENCE FROM N.A. NCBI_TaxID=10090;

01.APR-1990 (Rel. 14, Last sequence update)
28.FBR-2003 (Rel. 41, Last annotation update)
Leukosialin precursor (Leucocyte sialoglycoprotein) (Sialophorin)
(CD43 antigen) (LY 48) (B cell differentiation antigen LP-3).

01-APR-1990 (Rel. 14, Created) 01-APR-1990 (Rel. 14, Last seq 28-FEB-2003 (Rel. 41, Last ann

395 AA

STANDARD;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Information of the major glycoproteins of thymocytes and T lymphocytes. Plays a role in the physicochemical properties of the T-cell surface and in lectin binding. Presents carbohydrate ligands to selectins. Has an extended rodlike structure that could proteinte above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. Is a counterreceptor the T-cell-ApC (antigen-presenting cell) contact site thus suggesting a negative regilatory role in adaptive immune response.

-: TISSUE SPECIFICITY: cell surface of thymocytes, T lymphocytes, neutrophile, plasma cells and myslomas.

-: TISSUE SPECIFICITY: cell surface of thymocytes, T lymphocytes, neutrophile, plasma cells and myslomas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Allenspach E.J., Cullinan P., Tong J., Tang Q., Tesciuba A.G., Cannon J.L., Takahashi S.M., Morgan R., Burkhardt J.K., Sperling A.I., "ERW-dependent movement of CD43 defines a novel protein complex distal Immunological synapse.";
Immunity 15:739-750(2001)
                                                                                                                                                                                                                                                                 STRAIN=B10.P; IISSUE=Liver;
MEDLINE=90370495; PubMed=2144340;
Dorfman K.S., Litaker K.S., Baecher C.M., Frelinger J.G.;
"The nucleotide sequence of Ly 48 (mouse leukosialin, sialophorin):
the mouse homolog of C.M., "A.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=21136329; PubMed=11228599; van den Berg T.K., Nath D., Ziltener H.J., Vestweber D., Fukuda M., van den Berg T.K., Nath D., Ziltener H.J., Vestweber D., Fukuda M., van Die I., Crocker P.R.; "CP43 functions as a T cell counterreceptor for the macrophage adhesion receptor sialoadhesin (Siglec-1)."; J. Immunol. 166:3637-3640(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=90316596; PubMed=1973410; Baecher C.M., Dorfman K.S., Mattei M.-G., Frelinger J.G.; "CDNA cloning and localization of the mouse leukosialin gene (Ly48)
                      MEDLINE=90269342; PubMed=2347365;
Cyster J.G., Somoza C., Killeen N., Williams A.F.;
Protein sequence and gene structure for mouse leukosialin (CD43),
T lymphocyte mucin without introns in the coding sequence.";
Eur. J. Immunol. 20:875-881(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Shiota J., Nishimura H., Okamoto H., Yu B., Hattori S., Abe M., Okada T., Nozawa S., Tsurui H., Hirose S.; "A unique murine CD43 epitope Lp-3: distinct distribution from another CD43 epitope Sy."; Cell. Immunol. 155:402-413 (1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
MEDLINE=94236703; PubMed=7514104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=21585789; Pubmed=11728336;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          [mmunogenetics 31:307-314(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE OF 345-383 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; X17018; CAA34884.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S70677; AAB30765.1; -. M30693; AAA39457.1; -.
   STRAIN=DBA/2J; TISSUE=Liver;
                                                                                                                                                                                                                                FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=C57BL/6J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 structures.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BINDING TO SN.
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                                                                                                                                                                                                                                       SEQUENCE
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                                                                                                                                                                                                                                     4
                                                                                                                                                                                                                                                                      46 TGHTSSLEPGTALQP-QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLR 104
                                                                                                                                                                                                                                                                                         228 TSTTSTQDPITTRSPSQESSGM----LLV--PMLIALVVVLALVAL--LLLWRQRQKRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Epithelial discoidin domain receptor i precursor (EC 2.7.1.112)
(Tyrosine-protein kinase CAK) (Cell adhesion kinase) (Tyrosine kinase DDR) (Discoidin receptor tyrosine kinase)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -!- SIMILARITY: Contains 1 F5/8 type C domain.
-!- SIMILARITY: BELONGS TO THE TYR FAMILY OF PROTEIN KINASES. INSULIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- SÜBCELLUTÄR LÖCATION: Type I membrane protein.
-!- TISSUE SPECIFICITY: VARIONE EMBRYONIC AND ADULT TISSUES; ALSO
PROLIPERATIVE ZONES OF THE DEVELOPING BRAIN; HIPPOCAMPAL NEURONS.
-!- SIMILARITY: WITH THE CONSERVED CATALYTIC DOMAINS OF TYR-PROTEIN
                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Barbacid M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
STRAIN=Sprague-Dawley; TISSUE=Brain;
MEDLINE=9413920; DubMed=8127887;
Sanchez M.P., Tapley P. Saini S.S., He B., Pulido D., Barbacid M.;
Sanchez M.P., Tapley P. Saini S.S., He B., Pulido D., Barbacid M.;
"Multiple tyrosine protein kinases in rat hippocampal neurons:
"Multiple tyrosine protein kinases in rat hippocampal neurons:
"solation of Pkt.3, a receptor expressed in proliferative zones of the developing brain.";
Proc. Natl. Acad. Sci. U.S.A. 91:1819-1823(1994).
-! FUNCTION: MAY BE INVOLVED IN CELL-CELL INTERACTIONS AND RECOGNITION (BY SIMILARITY).
-! CATALYTIC ACTIVITY: ATP + a protein tyrosine = ADP + protein tyrosine phosphate.
                                                                                                      POTENTIAL.
CYTOPLASMIC (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL)
                                                                                                                                                                                                                                     10;
                                                                                                                                                                                               10.6%; Score 96; DB 1; Length 395; 33.7%; Pred. No. 0.4;
                                                                                                                                                                                                                                   15; Mismatches 36; Indels
                                                                         LEUKOSIALIN.
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                  369F201B04DBC055 CRC64;
                                    Signal, T-cell; Antigen.
                                                                                                                                                                                                                                                                                                                                              105 TASPDISEGVQQESLENVFVPSSETPHASAPT 136
                                                                                                                                                                                                                                                                                                                                                                                279 TGALTLSGGGKRNGVVDAWAGPARVPDEEATT 310
                                                                                                                                                                                                                0.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         910 AA.
                                                                                                                                                              40038 MW;
                                    Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL, L26525; AAA21089.1; -.
PIR, A53137; A53137.
HSSP; P00523; 2PTK.
                                                                                                                                                                                                                                     31; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RECEPTOR SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Rat)
                                                        19
395
248
271
395
167
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PIR; A43545; A43545.
MGD; MGI:98384; Spn.
                                                                                                                                                            395 AA;
                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                           20
20
249
272
167
                                  Glycoprotein;
SIGNAL
                                                                                        DOMAIN
TRANSMEM
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                                                                                                                                                              SEQUENCE
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Q63474;
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                                                                         CHAIN
                                                                                                                                                                                                                                     Matches
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    -!- SÜBCELLULÄR LÖCATION: Type I membrane protein.
    -!- ALTERNATIVE PRODUCTS:

                                                                                                                                                                                                                                 Event=Alternative splicing; Named isoforms=2;
                                                                                                                                                                                                                                                                                                                              -!- SIMILARITY: Contains 1 F5/8 type C domain.
                     SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING
                                                                                                                                                                                                                                           Name=CAK I;
Isold=003146-1; Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR000421; PAS8_C.
InterPro; IPR000719; Prot_kinase.
InterPro; IPR002011; RTKinaseII.
InterPro; IPR001245; Tyr_pkinase.
Pfam; PP00744; F5 F8 type_C; 1.
Pfam; PP00069; pkInase; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRINTS; PR00109; TYRKINASE.
ProDom; PD000001; Prot_kinase; 1.
SMART; SM00231; FA58C; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; L57509; AAB05209.1; -.
EMBL; X57240; CAA40516.1; -.
PIN; 830502. $30502.
MHSSP; P00523; 2PTK.
MGD; MGI:99216; Ddr1.
                                                                                                                                                                                                       tyrosine phosphate.
     NCBI_TaxID=10090;
                                                                                                                                                                                                                                                               Name=CAK II;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN
DOMAIN
TRANSMEM
     96 SWR--WROOLRTASPDISEGVOOESLENVFVPS----SETPHASAPTWPPLKEDADSAL 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            435 LWRLHWRRLLSKAE---RRVLEEELTVHLSVPGDTILINNRPGPREP--PPYQEPRPRGT 489
92
                                                                                                                                                                                                                                                                                                                                                                                                                                      44 PDTGHTSSLEPGTALQPQ-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            elial discoidin domain receptor 1 precursor (EC 2.7.1.112) sine-protein kinase CAK) (Cell adhesion kinase) (Tyrosine kinase (Discoidin receptor tyrosine kinase) (Protein-tyrosine kinase
                                                                                                                                                                                                                                                                                                  (BY SIMILARITY).
(BY SIMILARITY).
(BY SIMILARITY).
(BY SIMILARITY).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                  38; Indels 33; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                (POTENTIAL) . (POTENTIAL) . (POTENTIAL) .
                                                                                                                                                                                                                                                                                                                                                                                               9.8%; Score 88.5; DB 1; Length 910; 30.2%; Pred. No. 4.4; tive 19; Mismatches 38; Indels 3:
                                                                                                                                                                                                                                                                                                                                                                              7E7FFA1DCB029806 CRC64;
                                                                                                                                                                                                                                GLY/PRO-RICH.
GLY/PRO-RICH.
PROFEIN KINASE.
ATP (BY SIMILARITY).
BY SIMILARITY).
BY SIMILARITY
BY SHOSPHORYLATION (AUTO-) (BPHOSPHORYLATION (AUTO-) (BPHOSPHORYLATION)
                                                                                                                                                                                                            CYTOPLASMIC (POTENTIAL)
F5/8 TYPE C.
                                                                                                                                                                                                                                                                                                                     PHOSPHORYLATION (AUTO-)
PHOSPHORYLATION (AUTO-)
                                                                                                                                                                                                                                                                                                                                       N-LINKED (GLCNAC. N-LINKED (GLCNAC. N-LINKED (GLCNAC. N-LINKED (GLCNAC. N-LINKED (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-0cT-1994 (Rel. 30, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last amnotation update)
Epithelial discoidin domain receptor 1 preque:
(Tyrosine-protein kinase CAK) (Cell adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                              101164 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MPK-6).
DDR1 OR EDDR1 OR CAK OR MPK6.
Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 30.2%
Matches 39; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                149 PRHSVP-VP 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  490 PTHSAPCVP 498
                                                                                                                                                                                                                                                                                                                                                                              910 AA;
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DOMAIN
TRANSMEM
DOMAIN
DOMAIN
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CARBOHYD
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CARBOHYD
SEQUENCE
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BINDING
ACT SITE
DISULFID
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DOMAIN
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    OCCUPATE THE COCO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ISOID=003146-2; Sequence=VSP 002954; TISSUE SPECIFICITY: THE PREDOMINANT ISOFORM CAK I, IS EXPRESSED IN DEVELOPING EMBRYO AND ADULT BRAIN; CAK II IS EXPRESSED IN VARIOUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EPITHELIAL CELLS.
SIMILARITY: BELONGS TO THE TYR FAMILY OF PROTEIN KINASES. INSULIN
RECEPTOR SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  POTENTIAL.
EPITHELIAL DISCOIDIN DOMAIN RECEPTOR 1.
EXTRACELLULAR (POTENTIAL).
POTENTIAL.
STRAIN=C57BL/6;
MEDLINE=96204002; PubMed=8622863;
Perez J.L., Jing S.Q., Wong T.W.;
Pidentification of two informs of the Cak receptor kinase that are coexpressed in breast tumor cell lines.";
Oncogene 12:1469-1477 (1996).
                                                                                                                                                                                                                                                                                                                  SEQUENCE OF 766-822 FROM N.A.
STRAIN=C751BL/6; TISSUE=Embryonic brain;
MEDLINE=93096484; PubMed=1281307;
Gilardi-Hebenstreit P., Nieto M.A., Frain M., Mattei M.-G.,
Gilardi-Hebenstreit P., Nieto M.A., Frain M., Mattei M.-G.,
Glestier A., Wilkinson D.G., Charnay P.;
"An Eph-related receptor protein tyrosine kinase gene segmentally
expressed in the developing mouse hindbrain.";
Oncogene 7:2499-2506(1992).
--- FUNCTION: MAY BE INVOLVED IN CELL-CELL INTERACTIONS AND
RECOGNITION (BY SIMILARITY).
--- CATALYTIC ACTIVITY: ATP + a protein tyrosine = ADP + protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMART; SM00219; TYEK; 1.

PROSITE; PS01285; FA58C_1; 1.

PROSITE; PS001286; FA58C_2; 1.

PROSITE; PS00128; FA58C_3; 1.

PROSITE; PS00107; PROTEIN KINASE_DOW; 1.

PROSITE; PS00109; RROTEIN KINASE_DOW; 1.

PROSITE; PS00109; RECEPTOR_TYRA KINASE_TYR; 1.

TRANSFERSE; PS00109; RECEPTOR_TYRA KINASE_TYR; 1.

TRANSFERSE; PS00109; RECEPTOR_TYRA KINASE_TYR; 1.

TRANSFERSE; TYROSINE-PFOCE TYRA KINASE_TYR; 1.

TRANSFERSE; TYROSINE-PFOCE TYRA KINASE_TYR; 1.

TRANSFERSE; TYROSINE-PFOCE TYRASE_TYR; 1.

TRANSFERSE; TYROSINE-PFOCE TYROSINESE; Glycoprotein; Signal; Phosphorylation; Transmembrane; Receptor; ATP-binding; Alternative splicing.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1428 IEAEKŚMSŚGGILRĄCLRLVC-AVAVRNĆLECQQHSQLKTRGDKALKPMHSLIPLGKŚAA 1486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98 RWRQQLRTASPDTSEGVQQESLENVFVPSSE-TPHA-SAPTWPPLKE-DADSALPRHSVP 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67 RPDVALLVGA-------VALLVGLILALTLVGLVS-LVSW 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1301 1343 WD 1.
2200 2489 BEACH.
2201 2489 WD 2.
25591 2679 WD 2.
2675 2735 WD 4.
2819 2858 WD 6.
2819 2858 WD 6.
2874 2692 F (IN REF. 2 AND 3).
2863 AA; 319157 MW; D5BEE593A6E924C30 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DDR1_EUMAN STANDARD; PRT; 913 AA.

Q08345; Q14196; Q16562;

Q014345; Q14196; Q16562;

O1-FEB-1995 (Rel. 31, Created)

O1-NOV-1997 (Rel. 35, Last sequence update)

15-SEP-2003 (Rel. 42, Last annotation update)

Epithelial discoidin domain receptor 1 precursor (EC 2.7.1.112)

Epithelial discoidin finase CAK) (Cell adhesion kinase)

DDR) (Discoidin receptor tyrosine kinase) (TRK E) (Protein-tyrosine kinase RTK 6) (CD167a antigen).

Endra EDDR1 OR CAK OR TRKE OR RTK6.

Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 VRSQRSRDS-SVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGTALQPQEGSAL
     -!- SIMILARITY: Contains 1 BEACH domain.
-!- CAUTION: WAS ORIGINALLY (REF.3) SAID TO BE SIMILAR TO YEAST CDC4,
BUT THAT SIMILARITY IS VERY LIMITED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            37; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 2863;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9.6%; Score 87.5; DB 1; Length 2 25.2%; Pred. No. 19; ative 29; Mismatches 85; Indels
                                                                                                                                                                                                                                                                                                                                                                            SMART; SM00320; WD40; 5.
PROSITE; PS50197; BEACH; 1.
PROSITE; PS50187; WD REPEATS_1; FALSE_NEG.
PROSITE; PS50062; WD REPEATS_2; FALSE_NEG.
PROSITE; PS50294; WD_REPEATS_2; FALSE_NEG.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      155 V---PATELGSTELVTTKTAGP 173
                                                                                                                                                                                                                                                                                                                           Pfam; PF00138; Beach; 1.
Pfam; PF00400; WD40; 5.
ProDom; PD007848; Beige_BEACH; 1.
                                                                                                                                                                                                                                                                                   41M; 606453; -.
InterPro; IPR000409; Beige_BEACH.
InterPro; IPR001680; WD40.
                                                                                                                                                                                                        EMBL, AF216648; AAG48558.2; -. EMBL, FAF217149; AAG48559.1; -. EMBL; M83822; AAB09603.1; -. Genew; HGNC:1742; LRBA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 25.2
les 51; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Repeat; WD repeat.
                                                                                                                                                                                                                                                                             606453
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REPEAT
REPEAT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 436 LWRLHWRRILGKAE---RRVLEEELTVHLSVPGDTILINNRPGPREP--PPYQEPRPRGT 490
                                                                                                                                                                                                                                                                                                                                                                                                                                  PDTGHTSSLEPGTALOPO-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PSOBE1; QSH2U3; CREENING; PART, COURTING; PEOCYT.1996 (Rel. 34, Created) 28-F2B-2003 (Rel. 34, Last sequence update) 28-F2B-2003 (Rel. 41, Last annotation update) Lipopolysaccharide-responsive and beige-like anchor protein (CDC4-like protein) Reage-like protein) LIBBA OR LBA OR CBC4. SBGL. Homo sapiens (Human).
                                                                                                                                                   PHOSPHORYLATION (AUTO-) (BY SIMILARITY).
PHOSPHORYLATION (AUTO-) (BY SIMILARITY).
PHOSPHORYLATION (AUTO-) (BY SIMILARITY).
PHOSPHORYLATION (AUTO-) (BY SIMILARITY).
N-LINKED (GLCNAC...) (POTENTIAL).
N-LINKED (GLCNAC...) (POTENTIAL).
N-LINKED (GLCNAC...) (POTENTIAL).
N-LINKED (GLCNAC...) (POTENTIAL).
Missing (in isoform CAK II).
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MEDLINE=21154060; PubMed=11254716;
Wang J.-W., Howson J., Haller E., Kerr W.G.;
"Identification of a novel lipopolysaccharide-inducible gene with key
features of both A kinase anchor proteins and chal/beige proteins.";
J. Immunol. 166:4586-4595 (2001).
                                                                                                                                                                                                                                                                                                                                                                                            38; Indels 33; Gaps
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MEDLINE=92372019; PubMed=1505956;
Feuchter A.E., Freeman J.D., Mager D.L.;
Feuchter A.E., Freeman J.D., Mager D.L.;
Strategy for detecting cellular transcripts promoted by human endogenous long terminal repeats: identification of a novel gene (CDC4L) with homology to yeast CDC4.";
Genomics 13:1237-1246 (1992).
-!- INDUCTION: By lipopolysaccharide (LPS).
-!- SIMILARITY: Contains 6 WD repeats.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi.
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                             Score 87.5; DB 1; Length 911; Pred. No. 5.4;
                                                                                                                                                                                                                                                                                                            /FTId=VSP 002954.
911 AA; 101160 MW; DBB7FE03DDD79510 CRC64;
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Submitted (DEC-1994) to the EMBL/GenBank/DDBJ databases
                                               GLY/RRO-RICH.
PROTEIN KINASE.
ATP (BY SIMILARITY).
ATP (BY SIMILARITY).
BY SIMILARITY.
BY SIMILARITY.
PHOSPHORYLATION (AUTO-) (B PHOSPHORYLATION (AUTO-) (B PHOSPHORYLATION (AUTO-))
   CYTOPLASMIC (POTENTIAL)
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MEDLINE=94134417; PubMed=8302582;
Perez J.L., Shen X., Finkernagel S., Sciorra L., Jenkins N.A., Gilbert D.J., Copeland N.G., Wong T.W.;
"Identification and chromosomal mapping of a receptor tyrosine kinase with a putative phospholipid binding sequence in its ectodomain.";
Oncogene 9:211-219(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Shiina S., Tamiya G., Oka A., Inoko H.; "Homo sapiens 2,229,817bp genomic DNA of 6p21.3 HLA class I region."; Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=96204002; PubMed=8622863; Perez J.L., Jing S.Q., Wong T.W.; "Identification of two isoforms of the Cak receptor kinase that are coexpressed in breast tumor cell lines.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. (ISOFORM SHORT).
TISSUE=Brain, and Keratinocytes;
MEDLINE=94043265; PubMed=8226977;
di Marco E., Cutuli N., derra L., Cancedda R., de Luca M.;
"Molecular cloning of trkE, a novel trk-related putative tyrosine kinase receptor isolated from normal human keratinocytes and widely
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MEDLINE=22388257; PubMed=12477932;
MEDLINE=22388257; PubMed=12477932;
MEDLINE=22388257; PubMed=12477932;
Klausner R.D., Collins F.S., Wagner L., Shemmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Isolatrion and characterization of an epithelial-specific receptor tyrosine kinase from an ovarian cancer cell line."; Cell Growth Differ. 5:1173-1183(1994).
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Chordata, Craniata, Vertebrata, Buteleostomi, Primates; Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                          Johnson J.D., Edman J.C., Rutter W.J.;
"A receptor tyrosine kinase found in breast carcinoma cells has extracellular discoidin I-like domain.";
Proc. Natl. Acad. Sci. U.S.A. 90:5677-5681(1993).
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Genome Res. 6:620-627(1996).
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Sakuma S., Tada M., Saya H., Sawamura Y., Shinohe Y., Abe H.;
"Receptor protein tyrosine kinase DDR is up-regulated by p53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=96389017; PubMed=8796349;
Playford M.P., Butler R.J., Wang X.C., Katso R.M., Cooke I.E.
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MEDLINE=95151638; PubMed=7848919;
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MEDLINE=93296201; PubMed=8390675;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein.";
FEBS Lett. 398:165-169(1996).
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                   Mammalia, Eutheria;
NCBI_TaxID=9606;
Eukaryota; Metazoa;
                                                                      SEQUENCE FROM N.A.
TISSUE=Fetal liver;
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TISSUE=Placenta;
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A Statchenko L. Kennsin R. Rarme, N. Rarme, N. Ramine, G., Kinnel, P. Ramage C., M. Bonaldo M.F., Casavant T.L., Scheetz T.E., Rarwant T.L., Called R. M. Millaby S.J., Ramage C., Mark C., Mark C., Mark C., Carled R. M. Millaby S.J., Loquelland, N.A., Peters G.J., Aramon R.D., Millaby S.J., Marker D. M., Carled R. M., Carle
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GO; GO: 0004714; F:transmembrane; TAS.

GO; GO: 0004714; F:transmembrane receptor protein tyrosine kin. .; TAS.

GO; GO: 0004714; F:transmembrane receptor protein tyrosine kin. .; TAS.

GO; GO: 0004714; F:transmembrane receptor protein tyrosine kin. .; TAS.

Total Color of the 
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(BY SIMILARITY).
(BY SIMILARITY).
(BY SIMILARITY).
(POTENTIAL).
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01-07N/-1990 (Rel. 13, Last sequence update)
28-FPB-2003 (Rel. 41, Last amotation update)
Leukosialin precursor (Leucocyte sialoglycoprotein) (Sialophorin)
(CD43) (W3/13 antigen) (Fragment).
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N-LINKED (GLCNAC. . ) (POTENTIAL).
N-LINKED (GLCNAC. . ) (POTENTIAL).
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi.
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Pred. No. 8.1;
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Best Local Similarity 30.29
Matches 39; Conservative
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Best Local Similarity 26.1%;
Matches 47; Conservative 21
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15-SEP-2003 (Rel. 42, Last
Ig alpha-1 chain C region.
IGHA1.
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                                                                                                                                                                                                                                                              197 SSSVAGGTPVFSTKISTTSTPNPITTVPPRPGSS----GMLLVS--MLIALTVVLVLVAL 250
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                                                                                                                                                                                            Gaps
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-i- FUNCTION: Promotes cell adhesion.
-i- SIMILARITY: BELONGS TO THE GPI10 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
NCBI_TaxID=10090;
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N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
2A6C2691E79C962D CRC64;
  (GALNAC. .).
(GALNAC. .).
(GALNAC. .). (POTENTIAL).
(GALNAC. .).
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28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Adhesion regulating molecule 1 precursor (110 kDa cell membrane glycoprotein) (Gpl10) (ARM-1).
ADRMI OR GP110
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GLY-RICH.
SER-RICH.
                                                                                                                                                 Score 85; DB 1; Length 378; Pred, No. 3.4;
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; 231CC80E8A8A257C CRC64;
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38425 MW;
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InterPro; IPR006773; ARM_1.
Pfam; PF04683; ARM_1; 1.
Cell adhesion; Glycoprotein;
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MEDLINE=84130179; PubMed=6421489;
Flanagan J.G., Lefranc M.-P., Rabbitts T.H.;
"Mechanisms of divergence and convergence of the human immunoglobulin alpha 1 and alpha 2 constant region gene sequences.";
Cell 36:681-688(1984).
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Yang C.-Y., Kratzin H., Gotz H., Hilschmann N.;

"Rule of antibody structure. Primary structure of a human monoclonal IgA-immunoglobulin (myeloma protein Tro). VII. Purification and characterization of the disulfide bridges.";

Hoppe-Seyler's Z. Physiol. Chem. 360:1919-1940(1979).
                                                                             Gaps
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"The structure and function of human IgA.";

"The structure and function of human IgA.";

"The struction: IG ALPHA IS THE MAJOR IMMUNOGLOBULIN CLASS IN BODY

"SECRETIONS. IT MAY SERVE BOTH TO DEFEND AGAINST LOCAL INFECTION

AND TO PREVENT ACCESS OF FOREIGN ANTIGENS TO THE GENERAL

IMMUNOLOGIC SYSTEM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE (MYELOMA PROTEIN BUR), AND DISULFIDE BONDS.
MEDILINE-79151016; PubMed-107164;
Putnam F.W., Liu Y.-S.V., Low T.L.K.;
"Primary structure of a human IgAl immunoglobulin. IV. Streptococ IgAl protease, digestion, Fab and Fo fragments, and the complete amino acid sequence of the alpha 1 heavy chain.";
J. Biol. Chem. 254;2865-2874(1979).
                                                                             26;
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BEDLINE=76023781, PubMed=809331;
Kratzin H., Altevogt P., Ruban B., Kortt A., Staroscik K.,
Hilschmann N.,
                                                                             Indels
                                                                             86;
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01-FEB-1991 (Rel. 17, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
; Score 83; DB 1; Pred. No. 5.5; 21; Mismatches
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179 LCGCYSVSSVLPGCAEPWNHGKTFTCTAAYPESKTPLTATLSKSGNTFRPEVHLLPPPSE 238
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Corynebacteriaceae; Corynebacterium.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     70; Indels
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ATP (BY SIMILARITY).
ATP (BY SIMILARITY).
BY SIMILARITY.
4, 84CC987FE9F902F9 CRC64;
                                                                                                                                                                                                               PRT: 520 AA.
03FUT4; STANDARD; PRT; 520 AA.
03FUT4; SEP-2003 (Rel. 42, Created)
15-SEP-2003 (Rel. 42, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
62F11e/threonine protein kinases drp72 (EC 2.7.1.37).
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InterPro; IRR00719; Prot kinase.
InterPro; IRR00719; Prot kinase.
InterPro; IRR001245; Tyr_Dkinase.
Pfam; PP001049; pkinase; 1.
ProDom; PD0000001; Prot kinase; 1.
SWART; SM00220; S TKC; 1.
SWART; SM0019; TYrKC; 1.
PROSITE; PS00107; PROTEIN KINASE ATP; 1.
PROSITE; PS00101; PROTEIN KINASE DOM; 1.
PROSITE; PS00101; PROTEIN KINASE DOM; 1.
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24; Mismatches
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520 AA; 54630 MW;
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                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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INTERCHAIN (WITH HEAVY CHAIN OF ANOTHER
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IG-LIKE 2.
IG-LIKE 3.
INTERCHAIN (WITH LIGHT CHAIN)
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OR 123-182 (IN REF. 4).
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165 TPS -> PST (IN REF. 2).

176 E -> B (IN REF. 3).

190 P -> S (IN REF. 3).

227 R -> H (IN REF. 3).

231 H -> R (IN REF. 3).

230 T -> E (IN REF. 3).

231 T -> E (IN REF. 3).

24 T -> E (IN REF. 3).

25 T -> E (IN REF. 3).
SUBJNIT: MONOMERIC OR POLYMERIC.
SIMILARITY: Contains 3 immunoglobulin-like domains.
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N-LINKED (GLCNAC. ..).
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PDB; 11GA; 12-UN-99.
Genew; HGNC:5478; 15-UN-99.
MIM; 146900; ---
GO; GO:0003823; F:antigen binding activity; NAS.
GO; GO:0005955; P:immune response; NAS.
InterPro; IPR003597; Ig-1ike.
InterPro; IPR003597; Ig-1.
Pfam; PF00047; ig; 3.
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                                                                                                                                                                                                                                                         "The entire genomic sequence of Corynebacterium efficiens YS-314."; submitted (MAY-2002) to the BMBL/GenBank/DDBJ databases.
-!- CATALYTIC ACTIVITY: ATP + a protein = ADP + a phosphoprotein.
-!- SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAINS-78-314 / An 12310 / DSM 44549 / JCM 11189;
KRAWATABAYBSI Y., YAMBZAKI J., Hino Y., Kikuchi H., Nakamura Y.,
Ikeo K., Suzuki M., Mashima J., Itoh T., Yamagishi A., Nishio Y.,
Usuda Y., Sugimoto S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     128 ETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGP 173
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Heuer J.G., Fatemie-Nainie S., Wheeler E.F., Bothwell M.;
Dev. Biol. 137:287-304 (1990)

-1- FUNCTION: Low affinity receptor which can bind to NGF, BDNF, NT-3, and NT-4. Can mediate cell survival as well as cell death of neural cells (By similarity)

-1- SUBUNIT: Homodimer, disulfide-linked. Interacts with P75NTR-associated cell death executor. Interacts with TRAF2, TRAF4 and TRAFE (By similarity)

-1- SUBCELUIAR LOCATION: Type I membrane protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gallus gallus (Chicken).
Eukaryota; Metazca; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE=Brain;
MISTIME 20165519; PubMed=2560385;
Large T.H. Weskamp G., Helder J.C., Radeke M.J., Misko T.P.,
Shooter E.M., Reichardt L.F.;
Structure and developmental expression of the nerve growth factor
receptor in the chicken central nervous system.";
Neuron 2:1123-1134(1989)
                                                                                                                                                                                                                          01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
01-SEP-2003 (Rel. 42, Last annotation update)
Tumor necrosis factor receptor superfamily member 16 precursor (Lo affinity nerve growth factor receptor) (NGF receptor) (Gp80-LNGFR)
(p75 ICD) (Low affinity neurotrophin receptor p75NTR).
391 EEPTLAPPVQPTRQ------PVPTPDETPTRLPTTQESP 425
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-!- SIMILARITY: Contains 4 TNFR-Cys repeats.
-!- SIMILARITY: Contains 1 death domain.
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TNFR-CYS 3.
TNFR-CYS 4.
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                                                                                                                                                                            TR16 CHICK
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its was by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@lsb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100 -----RQQLRTASP-----DTSEGVQQESLENVFVPSSETP------HASAP- 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              271 KQGANNRPVNQTPSPEGEKLHSDSGISVDSQSLHDQQPPNQSTQGPAPKGDGSLYASLPP 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15 DSSVP-TOCNOTECFDPLVRNCVS----CELFHTPDTGHISSLEPGTALQP-----Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                62 EGSA--LRPDVALLVG-----APALLGL---ILALTLVGLVSLVSW-RW-----
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MEDLINE-89386006; PubMed=2506527;

Kawmura S., Omctor K., Ueda S.;

Nucleotide sequence of the gorilla immunoglobulin alpha 1 gene.";

Nucleic Acids Res. 17:6732-6732[1989].

- FUNCTION: IG ALPHA IS THE MAJOR IMMUNOGLOBULIN CLASS IN BODY

SERRETIONS. IT MAY SERVE BOTH TO DEFEND AGAINST LOCAL INFECTION

AND TO PREVENT ACCESS OF FOREIGN ANTIGENS TO THE GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gorilla gorilla gorilla (Lowland gorilla).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Gorilla.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9.0%; Score 82; DB 1; Length 416; 24.1%; Pred. No. 6.8; ative 22; Mismatches 64; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             136 -----TWPPL-----KEDADSALPRHSVPVPA 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    331 SKQEEVEKILSSSAEETWRQLAGELGYKEDLIDCFTREESPARA 374
BY SIMILARITY.
BY SIMILARITY
BY SIMILARITY.
C - Y (IN REF. 2).
T -> K (IN REF. 2).
N -> S (IN REF. 2).
K -> K (IN REF. 2).
K -> K (IN REF. 2).
K -> K (IN REF. 2).
W, 6BCEAAAB54F4D2D56 CRC64;
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SIMILARITY: Contains 3 immunoglobulin-like domains.
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01-FEB-1991 (Rel. 17, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
IGHAL.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        44654 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               54; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        416 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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INTERPRO; LFR00110; Ig-like.

DR InterPro; IPR003597; Ig_c1.

DR PEam; PF00047; Ig_d1.

DR PROSITE; PS50835; Ig_HHC.

DR PROSITE; PS50835; Ig_Like; 3.

DR PROSITE; PS50836; Ig_HHC; 1.

KW Immunoglobulin domain; Immunoglobulin C region; Glycoprotein; Repeat.

FT DOWAIN 125 220 IG_LIKE 1.

T DOWAIN 228 330 IG_LIKE 2.

T DISULPID 14

T DISULPID 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                     INTERCHAIN (WITH HEAVY CHAIN) (OR 180).
INTERCHAIN (WITH HEAVY CHAIN OF ANOTHER SUBDIT) (BY SIMILARITY).
BY SIMILARITY.
INTERCHAIN (WITH J CHAIN) (BY SIMILARITY).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
MM; 4820EBDB02AC7514 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      194 EPWNHGKTFTCTAAYPESKTPLTATLSKSGNMFRPEVHLLPPPSEELAINELVT 247
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IG-LIKE 2.
IG-LIKE 3.
IG-LIKE 3.
IG-LIKE 3.
IG-LIKE 3.
IG-LIKE 3.
INTERCHAIN (WITH LIGHT CHAIN) (BY SIMILARITY.
BY SIMILARITY.
INTERCHAIN (WITH HEAVY CHAIN) (BY SIMILARITY).
OR 123-182 (BY SIMILARITY).
BY SIMILARITY.
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9.0%; Score 81.5; DB 1; Length 353;
Best Local Similarity 25.3%; Pred. No. 6.3;
Matches 44; Conservative 19; Mismatches 72; Indels 35
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37755 MW;
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353 AA;
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Search completed: February 5, 2004, 17:59:35 Job time: 11.2222 secs

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February 5, 2004, 17:55:39 ; Search time 29.6528 Seconds (without alignments) 1522.933 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	Q8r4w8 musculu	Q9h746 homo sapien	Q9hau3 homo sapien	Q9hbb8 homo sapien	Q9hbb5 homo sapien	Q9nxi9 homo sapien	035407 mus musculu	Q9mzu9 felis silve	O75136 homo sapien	Q8vhf2 mus musculu	Q9dfv0 brachydanio	084328 chlamydia t	Q8wy24 homo sapien	Q8cej3 mus musculu	Q8nfq0 homo sapien	Ospha mus musculu
SUMMARIES	Д	Q8R4W8	Q9H746	Q9HAU3	оэнвва	Q9HBB5	61XN6O	035407	602M6O	075136						_	
	DB	11	4	4	4	4	4	11	9	4	11	13	16	4	17	4	11
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	% Query Match	99.4	11.2	11.2	11.2	11.2	10.9	10.5	10.4	10.4	10.3	10.2	10.2	10.0	o.	9.6	9.6
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RESULT 2

9.5 744 4 Q8NHD2 9.4 898 11 Q8KKS4 9.4 1032 5 P91365 9.3 2246 4 O14762 9.3 1092 5 Q22463 9.3 1092 5 Q22463 9.3 295 11 Q9DRUC 9.3 295 12 Q9DWHO 9.2 669 11 Q9DB19 9.2 787 2 Q9SIA 9.2 787 2 Q9SIA 9.1 494 4 Q9CKC8 9.1 276 7 Q9SIA 9.1 276 1 Q9CKC8 9.1 494 4 Q9CKC8 9.1 494 1 Q8CKC8 9.1 494 1 Q8CKC8 9.1 496 1 Q9CKC8 9.1 496 1 Q9CKC8	444446 E E E E E E E E E E E E E E E E E	Q8nhd2 homo sapien Q8k184 mus musculu Q9jlk1 rattus norv P91365 caenorhabdi Q8ifx6 caenorhabdi	O14762 homo sapien Q22463 caenorhabdi Q9eqj5 mus musculu Q9ruc5 deinococcus	Qyawmu rat. Cytomeg Qyamik2 rhizobium 1 Qynx86 homo sapien Qyamis919 musculu Qoods19 musculu	Q8y030 ralstonia s Q922a7 mus musculu Q15175 homo sapien Q9vza9 drosophila Q9hfz4 candida alb Q9s1a9 microcystis	QupGo homo sapien QupGo homo sapien QupGkRB homo sapien QupGkRB homo sapien QupGkRB homo sapien QupGkRB homo sapien	Q92070 gallus gall Q94278 ratus norv Q90027 leishmania Q85KNO heliothis z Q8tu88 methanosarc
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ALIGNMENTS

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			TA.; TRAF3 binding protein, T3BP, which increases "; the EMBL/GenBank/DDBJ databases.		Gaps	MGARALRVRSGRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGTALQP 	ORGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLE 	175
		tomi ; Mus	incre		;;	LEPG LEPG	EGVQ EGVQ	GPEQ GPEQ
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	e) ate)	ata; idae	T3Bl ataba	CRC64;	••	ELFH.	WR001 WR001	ELGS:
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175 AA.	ed) sequence update) annotation update)	Craniata; Vertebrata; Buteleostomi; Sciurognathi; Muridae; Murinae; Mus	prot nk/DI	B64EFF4B52EE93B1	, DE 3.36 ches	PLVRP 	GLVSI - - - GLVSI	RHSVI RHSVI
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PRT;	Created Last sec Last an		SEQUENCE FROM N.A. Mizuno K., Irie S., Sato TA.; Mizuno K., Irie S., Sato TA.; "Identification of novel TRAF3 binding protein, T3BP, w' cellular F-actin content."; Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases		Score 902; DB 11; Pred. No. 3.3e-75; 0; Mismatches 1	0000 		NVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ
	21, C 21, L	III. Chordata; Rodentia;	SECULIANCE FROM N.A. SECULIANCE FROM N.A. Mizuno K., Irie S., Sato TA.; "Identification of novel TRAF3 cellular F-actin content."; Submitted (FEB-2001) to the EMB	EMBL; AF350257; AAL83914.1; SEQUENCE 175 AA; 18846 MW;	0	SVPT	PALL 	MPPL
•-		n. Chord Rođer	Sato ovel tent.	3914. 18846	99.4%; 99.4%;	RSRDS RSRDS	ELVG7	ASAP1 ASAP1
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	7005 7005 7005	Mus musculus (Eukaryota; Met Mammalia; Euth	E FRC K., J ficat r F-e	F3502	ch 1 Simi 174;	1 MG/	61 QEC	
T 1 8 QBR4W8 QBR4W8;	01 - JUN - 2002 01 - JUN - 2002 01 - JUN - 2002	mus aryo mali	UCENC TUDO TUDA Mitt	EMBL; AF. SEQUENCE	Matc local		6 6	121
RESULT 1 QBR4W8 ID QBR	1001	Mus r Eukar Mamme NCBI	SEQ SEQ Subject	SEG	Query Match Best Local Similarity Matches 174; Conser			
RESULT Q8R4W8 ID Q	6668	38888	RRARR	S O	OME	දු දු	දු දු	충 음

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88 LVGLVSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSA 147
                                                                                                           683 LIGLAVLVHKHYGPRLKCCSGKAPEPQPQGFDNQAFLPDHKANMAPVPSFTHDPKPAEAP 742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDITRE 20487546; PubMed=11031102;
Paris M.J., Williams B.R.G.;
"Characterization of a 500-kb Contig Spanning the Region between c-Ha-
ras and WG2 on Chromosome lip15.5.";
Ras and WG2 on Chromosome lip15.5.";
EMBL, AF286674; AAG16731.1;
EMBL, AF28674; AAG16731.1;
SMART; SM00112; CA; 3.
PROSTIE; PS00222; CADHERIN. 1; 1.
PROSTIE; PS50268; CADHERIN. 2; 4.
SEQUENCE 845 AA; 88097 WW; 6CD0E3985391F59F CRC64;
                          -----DVALLVGAPALLGLILALT
                                                                                 88 LVGLVSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSA
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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi;
Mammalia, Butheria, Primates, Catarrhini; Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Last annotation update)
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  43 TPDIGHISSLEPGTALQPQEGSALRP----
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SEQUENCE FROM N.A.
Paris M.J., Williams B.R.G.;
                                                                                                                                                                                                                                                                                                                             01-MAR-2001 (TEMBLrel. 16, 01-MAR-2001 (TEMBLrel. 16, 01-OCT-2002 (TEMBLrel. 22, MUCPLL-FL.
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Q9HBB8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        133 LIGLAVLVHXHYGPRLKCCSGKAPBPQPQGFDNQAFLPDHKANWAPVPSPTHDPKPABAP 192
                                                                                                                                                                                                                                                            TISSUE=COlon;
Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Ota T., Suzuki Y., Obayashi M., Nishi T., Shibahara T., Tanaka T., Nakamura Y., Isogai T., Suyano S.;
"NEDO human cDNA sequencing project.";
"NEDO human cDNA sequencing project.";
Submitted (ANG-2000) to the EMBL/GenBank/DDBJ databases.
EMBL, AKO25012; BAB15022.1; -.
InterPro; IPR002965; P rich extensn.
PRINTS; PR01217; PRICHEXTENSN.
Hypothetical protein.
SEQUENCE 295 AA; 29184 MW; DIF2B24701356A8F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                43 TPDTGHTSSLEPGTALQPQEGSALRP------DVALLVGAPALLGLILALT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                               Eukaryoča, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Match 11.2%; Score 102; DB 4; Length 295; Local Similarity 28.1%; Pred. No. 0.2; les 41; Conservative 18; Mismatches 67; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Soleiman A., Krieger S., Haase A., Hantusch B.;
"Cloning and characterization of human mu-protocadherin.";
Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AF301909; AAG33495.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR002126; Cadherin.
PRINTS; PR00205; CADHERIN.
SMART; SM00112; CA; 3:
PROSITE; PS00232; CADHERIN 1; 1.
PROSITE; PS50268; CADHERIN 2; 4.
SEQUENCE 845 AA; 88171 WW; D12C11C1E3E11680 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-MAR-2001 (TYEMBLrel. 16, Created)
01-MAR-2001 (TYEMBLrel. 16, Last sequence update)
01-MAR-2003 (TYEMBLrel. 23, Last annotation update)
                                                                                   Last sequence update)
Last annotation update)
                        295 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  148 LPRHSVPV-PATELGSTELVTTKTAG 172
                                                               Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                        PRT;
                   Q9H746
Q9H746,
Q9H746,
Q1-H74R-2001 (TrEMBLrel. 16, Cree
01-MAR-2001 (TrEMBLrel. 16, Last
01-OCT-2002 (TrEMBLrel. 22, Last
Hypothetical protein FLJ21359.
Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genew; HGNC:7521; MUCDHL.
InterPro; IPR002126; Cadh
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                                                                                                                                                                                                           NCBI_TaxID=9606;
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ProDom; PD000001; Prot kinase; 1.
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SMART; SM00219; TYrKc;
                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          461 TPGGGTAQTPEPGTS-QPMPLSKSTPSSGGGPSEDKRFSVVDMAALGG---VLGALLLLA 516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88 LVGLVSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSA 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98 LVGLVSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSA 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     627 TPGGGTAQTPEPGTS-QPMPLSKSTPSSGGGPSEDKRFSVVDMAALGG---VLGALLLLA 682
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       43 TPDTGHTSSLEPGTALQPQEGSALRP-------DVALLVGAPALLGLILALT 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ota T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61; Indels 20; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                     67; Indels 20; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hypothetical protein FLJ20219.
Hypothetical protein FLJ20219.
Homo sapiens (Human).
Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
TISSUES-CALOM macosa;
Matanabe K., Kumagai A., Itakura S., Yamazaki M., Tashiro H.,
Suzuki Y., Obayashi M., Nishi T., Shibahara T., Tanaka T.,
Nakamura Y., Isogai T., Sugano S.;
"NEDO human CDNA sequencing project.";
Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.
"MUCDHL, a Novel cDNA with Mucin and Cadherin-Like Domains.";
Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
EMBL, AF2S6676; AAG16733.1; -.
InterPro; IPR002126; Cadherin.
PRINTS; PR00205; CADHERIN.
PRINTS; PR00112; CA, 3.
PROSITE; PS00213; CADHERIN. 1; 1.
PROSITE; PS50268; CADHERIN. 2; 4.
SEQUENCE 845 AA, 88156 \( \bar{N}M; \) 10E654279CE30ECE CRC64;
                                                                                                                                                                                                                                                                                                                                                Score 102; DB 4; Length 845;
Pred. No. 0.65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10.9%; Score 99; DB 4; Length 651; 28.3%; Pred. No. 0.91;
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InterPro; IPR002126; Cadherin.
PROSITE; PS50268; CADHERIN.2; 2.
Hypothetical protein.
SEQUENCE 651 AA; 67379 MW; AE6D4984FD69175C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
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39; Conservative 18; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                  41; Conservative 18; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  148 LPRHSVPV-PATELGSTELVTTKTAG 172
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                                                                                                                                                                                                                                                                                                                                                   11.2%;
28.1%;
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                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9606;
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Best Local 9
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035407
ID 035407
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Matches
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          RATE DISCONDING SOLUTION SOLUT
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TYROGINE PHOSPHATE.

TYROGINE PHOSPHATE.

-1 - SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN (BY SIMILARITY).

-1 - SIMILARITY: BELONGS TO THE TYR FAMILY OF PROTEIN KINASES. INSULIN RECEPPOR SUBFAMILY.

RECEPPOR SUBFAMILY.

RECEPPOR SUBFAMILY.

RELIA AF026259; AAB81866.1; -.

R HISSP, P00523; 2PTK.

R HSSP, P00523; 2PTK.

R HSSP, P00523; 2PTK.

R INTERPORT IPRO00421; FASB C.

R InterPor; IPRO00719; Prot kinase.

R InterPor; IPRO00719; Prot kinase.

R InterPor; IPRO01245; TYTE pkinase.

R Pfam; PF00754; FS F8 type C; 1.

R Pfam; PF00754; FS F8 type C; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         101
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           444 LLSKAD---SRVLEBELTVHLSVPGDTILINNRPGPREP--PPYQEPRPRGTPPHSAPCV 498
                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=129;
MEDLINE=93390947; PubMed=8397369;
Zerlin M., Julius M.A., Goldfarb M.;
Zerlin M., Julius M.A., Goldfarb M.;
INRP: a novel receptor-like tyrosine kinase expressed in proliferating neuroepithelia.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     44 PDTGHTSSLEPGTALQPQEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWR--WRQ
01-JAN-1998 (TrEMBLrel. 05, Created)
01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
01-JAN-2093 (TrEMBLrel. 03, Last semocation update)
Receptor-like tyrosine kinase (EC 2.7.1.112) (Tyrosine-protein kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17; Gaps
                                                                                                                                                                                              Mus musculus (Mouse).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zerlin M., Julius M.A., Goldfarb M.;
Submitted (SEP-1997) to the EMBL/GenBank/DDBJ databases.
-!- CATALYTIC ACTIVITY: ATP + A PROTEIN TYROSINE = ADP + PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PROSITE; PS01285; FASEC 1; 1.
PROSITE; PS01286; FASEC 2; 1.
PROSITE; PS01019; PROTEIN KINASE DOM; 1.
PROSITE; PS00109; PROTEIN KINASE TYR; 1.
PROSITE; PS00239; RECEPTOR TYR KIN II; 1.
ATP-binding; dlycoprotein; Kinase; Phosphorylation; Receptor; Transferase; Transmembrane; Tyrosine-protein kinase.
SEQUENCE 911 AA; 101091 MM; D52EC50267D8014D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 11; Length 911;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Match 10.5%; Score 95.5; DB 11; Length: Local Similarity 31.4%; Pred. No. 2.8; es 38; Conservative 17; Mismatches 49; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            291 AA
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676 PGEPLLGLQAASAQEPGC----CPGLPHLCSAQGLAPAPCLVTPSWTETASSGGDHPQA 730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 102 --QLRTASPDTS-----EGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSV 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         731 EPKLATEAEGTTGPRLPLPSVPSPSQEGAPLPSEE---ASAP-----DAPDALPDSPT 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95 VSWRWRQQLRTASPDTSEGVQQESLENV-FVPS----SETPH-----ASAPTWPP 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     662 VHKHYRHRLACCSGKASE-POPSGYDNLTFLPDHKAKWSPTPNRKPRPSPKLAOPPLRPP 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             43 TPDTGHTSSLEPGTALQPQEGSALR------PDVALLVGAPALLGLILALTLVGLVSL
                                                                                                                                                                                                                                                                                               1 MGARRL----RVRSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGT
                                                                                                                                                                                                                                                                                                                                                                                                                57 ALQP----QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ------
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.

STRAINBALB/C; TISSUB=Colon;

Soldian A., Krieger S:

Cloning and characterization of mouse mu-protocoadherin.";

Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.

REMD: AF462391; AAL67856.1;

RIGH: 1919299; 1810074401Rik.

RINTEPPO: IPR002126; Cadherin.

RINTERPO: IPR003412; FNA-Synt.I.

RPANTS; PR00048; Cadherin; I.

RPANTS; PR0004127; PRICHEXTENSN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              140 LKEDADSALPRHSVPVPATEL-GSTELV-------TTKTAGPE 174
                                                                                                                                                                        10.4%; Score 94; DB 4; Length 1326; 26.5%; Pred. No. 5.9; ive 23; Mismatches 79; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 11; Length 831;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64; Indels
                                                                                                                   SEQUENCE 1326 AA; 139961 MW; SE2917B6A1FC0158 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART; SM00112; CA; 2.
PROSITE; PS00178; AA TRNA LIGASE I; 1.
PROSITE; PS00232; CADHERIN I; 1.
PROSITE; PS50268; CADHERIN 2; 2.
CALGIUM; CALGIUM-binding; Cell adhesion; Glycoprotein.
SEQUENCE 831 AA; 88208 MW; F0ABF867A37F558B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last sequence update)
Last annotation update)
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27.4%; Pred. No. 4.3;
ive 18; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                831 AA
PROSITE; PSS0011; PROTEIN KINASE DOM; 1. PROSITE; PS00109; PROTEIN_KINASE_TYR; 1. ATP-binding; Transferase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 154 PVPATELGSTELVTT---KTAGPE 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781 PATGGEVSAIKLASALNGSSSSPE 804
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27.4%;
                                                                                                                                                                                                        Local Similarity 26.5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus (Mouse)
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Best Local Similarity
Matches 46; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mu-protocadherin.
1810074H01RIK.
                                                                                                                                                                                     Query Match
                                                                                             NON TER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 200 MSAAWCLHWRRRRWRTPYPREQRKTLRPRERNHLPEDTEPGLGESQLET----GSFLDHA 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         89 VGLVSLVSW---RW----RQQLRTASP-----DTSEGVQQESLENVFVPSSETPHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     33 RNCVSC-ELFHTPDTGHTSSLEPGTALQPQEGSALRPDVALLVGAPALLGLIL---ALTL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                 degree of similarity to the human and mouse homologue but uniquely long cytoplasmic domain.";
DNA Seq. 11:163-166(2000).
EMBL; AFISS149; AAR80009.1; -.
HSSP; P49771; IETE.
HTCFPPO: FRRO4213; Flt3_lig.
Pfan; PF02947; [f13] lig; 1.
SEQUENCE 291 AA; 32459 MM; 8F85A10A5EAODCC6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                      Felis silvestris catus (Cat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Felidae; Felis.
                                                                                                                                                                                                                                                                                            MEDLINE=20358731; PubMed=10902925;
Yang S., Sim G.K.;
"Molecular cloning of canine and feline flt3 ligand reveals high
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 10.4%; Score 94; DB 6; Length 291; Best Local Similarity 29.2%; Pred. No. 1; Matches 42; Conservative 11; Mismatches 59; Indels
   01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
KIAA0641 protein (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             133 SAPTWPPLKEDADSALPRHSVPVP 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  256 APLTLPPGWRQRQPPTPAPDPPIP 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1998 (TrEMBLrel. 08, Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human)
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TISSUE=Brain;
                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                     NCBI_TaxID=9685;
                                                                                          t3 ligand.
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Matches
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075136
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323 LCGCYSVSSVLPGCAEPWNHGKTFTCTAAYPESKTPLTATLPKSGNTFRPEVHLLPPPSE 382
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         497 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          287 FPFSYVRLILLLTTLCRHTLTTKAA 312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           155 VP-----ATELGSTELVTTKTA 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-MAR-2002 (TrEMBLrel. 20, 01-WAR-2002 (TrEMBLrel. 20, 01-MAR-2003 (TrEMBLrel. 23, SNC66 protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
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         SKARAFARKKS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     101 SQCHRDQTVVAECTSTSNTKCDCKFGTFCLPDEPCEVCKKCTKCKADEEEVSGCTPTSNT 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      49 TSSLEPGTALQPQEGSALRPDVALLVGA----PALLGLILALTLVGLVSLVSWRWRQQLR 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         T-----NGNLEEVKVPIDECPRSEEQENSRNAGLEKEEEHRPESRPLLTQETQE 267
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                73; Gaps
                                                                                                                                                                                                                                                                                                Brachydanio rerio (Zebrafish) (Danio rerio).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygli; Neopterygli; Teleostei; Ostarlophysi; Cypriniformes;
Cyprinidae; Danio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Bobbe Ju., Goetz F.W.;

Bobbe J., Goetz F.W.;

"Molecular cloning and expression of a TNF receptor and two TNF ligands in the fish ovary.";

Comp. Blochem. Physiol. B. Comp. Blochem. 129:475-481(2001).

R MSE, Q25256; JUAN.

R ASSP, Q25256; JUAN.

R ASPROJASS, Li., thfrsfa.

InterPro; IPR000345; CytC, heme_bind.

R InterPro; IPR001369; TNFR_c6.

Pfam; PF00031; death; INFR_c6.

R Pfam; PF00020; TNFR_c6; 3.

R SWART; SM00208; TNFR_c6; 3.

R PROSITE; PS00190; CYTOTHROME C; 1.

PROSITE; PS00190; CYTOTHROME C; 1.

PROSITE; PS00190; CYTOTHROME C; 1.

PROSITE; PS00107; DEATH DOWAIN; 1.
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Chlamydia trachomatis.
Bacteria, Chlamydiae, Chlamydiales, Chlamydiaceae, Chlamydia.
NCBI_TaxID=813;
10.2%; Score 92.5; DB 13; Length 438; 22.1%; Pred. No. 2.3; ive 22; Mismatches 71; Indels 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         438 AA; 49103 MW; B7E5312BE6E80B04 CRC64;
                                                                                                                                                                                                           Last sequence update)
Last annotation update)
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01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Hypothetical protein CT326.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGSKSIPVEDEDRGLGDSLPXHNQLFPKPSLSA 300
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                                                                                                                                            438 AA
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3 (TrEMBLrel. 23, I
receptor.
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nes 47; Conservative
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                                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
Bobe J., Goetz F.W
                                                                                                                                                                                 01-MAR-2001
01-MAR-2001
01-MAR-2003
Ovarian TNF
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                                                                                                                                   Q9DFV0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95 VSWRWRQQLRTASPDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVP 154
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  268 HPRLSL--HRPALEDLILGSEANLTCTLTGLRDASGVTFTWTP---SSGKSAVOGPPERD 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           234 SS-----LSAASSPISEDSDSSRLQLVRVVSSEDSVAFARLYAALNEDMISSV-RAANP 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                197 CVS----HVPFSPHSQSITPGV------GDACFELGLRMEFIRLAGL
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"Identification and characterization of SNG66, a Ig-like gene which is down-regulated in colorectal cancer.";
Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.

EMBL, AF283666, AL36897.1;
InterPro; IPR00110: Ig-like.
InterPro; IPR00306; Ig_MHC.
InterPro; IPR00306; Ig_W.
Fams, PP0047; ig; 4.
SWART; SM00406; IGv; 1.
PROSITE; PS00290; IG JIKE; 4.
PROSITE; PS00290; IG JIKE; 4.
SEQUENCE 497 AA; 53665 MM; F24D08DFA5A663E5 CRC64;
STRAIN=D/UW-3/Cx;
MEDLINE=99000809; PubMed=9784136;
MEDLINE=89000809; PubMed=9784136;
MEDFINE=89000809; Ralman S., Lammel C.J., Fan J., Marathe R., Aravind Mitchell W.P., Olinger L., Tatusov R.L., Zhao Q., Koonin E.V., Davis R.W.;
"Genome sequence of an obligate intracellular pathogen of humans:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          39;
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
10.2%; Score 92.5; DB 16; Length 563;
Best Local Similarity 29.5%; Pred. No. 3;
Matches 43; Conservative 10; Mismatches 54; Indels 39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 4; Length 497;
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                                                                                                                                                                                             Common Cyanomatis.";
Science 282:754-759(1998).
EMBL; AE001305; AAC67919.1; -.
Hypothetical protein; Complete proteome.
SEQUENCE 563 AA; 61917 MW; 4239579AOD6786EA CRC64;
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completed: February 5, 2004, 18:00:50 ie : 31.6528 secs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          658 LVILVHKHYRHRLACCSGKASE-PQPSGYDNLTFLPDHKAKWSPTPNRKPEPSPKLAQPP 716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 43 TPDTGHTSSLEPG----TALQP----QEGSALR---PDVALLVGAPALLGLILALTLVG 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dyonin V.C., Chaganti S.R., Dyomina K., Palanisamy N., Murty V.V.S., Dyomin V.C., Chaganti R.S.K., Dyomina K., Palanisamy N., Murty V.V.S., Dalla-Favera R., Chaganti R.S.K.;

"BCLE Is a Novel, Evolutionarily Conserved Human Gene Family Encoding Proteins with Presumptive Protein Kinase A Anchoring Function.";

Genomics 80:158-165(2002).

EMBL, AF467287; AAM35330.1;

InterPro; IPR000409; Beige BEACH.

InterPro; IPR001680; WD40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The FANTOM Consortium,
the RIKEN Genome Exploration Research Group Phase I & II Team;
the RIKEN Genome Exploration Research Group Phase I & II Team;
"Analysis of the mouse transcriptome based on functional annotation of
60,770 full-length cDNAs.";
Nature 420:563-573(2002)
BENBL: AR027913; BAR025662.1;
SEQUENCE 831 AA; 88227 MW; BAR9320A033B143C4 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        44; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                               Mus musculus (Mouse).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   136 TWPPLKEDADSALPRHSVPVPATEL-GSTELV-------TTKTAGPE 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
9.9%; Score 90; DB 11; Length 831;
Best Local Similarity 27.9%; Pred. No. 8;
Matches 48; Conservative 19; Mismatches 61; Indels
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Last annotation update)
                                                                                                                                                                                                             01-MAR-2003 (TrEMBLrel. 23, Created)
1-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
MU-PROTOCADHERIN
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                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=C57BL/6J; TISSUE=Kidney;
MEDLINE=22354683; PubMed=12466851;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=22150869; PubMed=12160729;
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                                                                                                                                                                      PRELIMINARY;
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PF00400; WD40; 4.
                      159 ELGSTELVT 167
                                                             383 ÉLALNÉLÝT 391
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                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=10090;
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                                                                                                                           RESULT 14
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1428 IEAEKSMSSGGILRQCLRLVC-AVAVRNCLECQQHSQLKTRGDXALXPMHSLIPLGKSAA 1486
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         98 RWRQQLRTASPDTSEGVQQESLENVFVPSSE-TPHA-SAPTWPPLKE-DADSALPRHSVP 154
                                                                                                                                                                                                                                           8 VRSQRSRDS-SVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGTALQPQEGSAL 66
                                                                                                                                   DB 4; Length 2851;
ProDom; PD007848; Beige_BEACH; 1.
PROSTITE; PS50197; BEACH; 1.
Repeat; WD repeat.
SEQUENCE 2851 AA; 317650 WW; 5D1530AFDD66CD97 CRC64;
                                                                                                                              9.6%; Score 87.5; Di
25.2%; Pred. No. 55;
tive 29; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         155 V---PATELGSTELVTTKTAGP 173
                                                                                                                                   Query Match
Best Local Similarity 25.2%
Matches 51; Conservative
                                                                                                                                                                                                                                                                                                                                                        67 RPDVALLVGA--
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ABB81489;
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                                                                                                                                                             February 5, 2004, 17:49:14; Search time 36.4583 Seconds (without alignments) 761.888 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                    1 MGARRLRVRSQRSRDSSVPT.....PATELGSTELVTTKTAGPEQ 175
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| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1981.DAT
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1983.DAT
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1983.DAT
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1984.DAT
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1985.DAT
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1986.DAT
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1988.DAT
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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/SIDS1/gcgdata/geneseq/geneseqp-embl/
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/SIDS1/gcgdata/geneseq/geneseqp-embl
/SIDS1/gcgdata/geneseq/geneseqp-embl
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1107863 seqs, 158726573 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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                                                                                                          OM protein - protein search, using sw model
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10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

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The present invention describes a human tumour necrosis factor receptor designated Zuffil2 (1). (1) has cytostatic, immunosuppressive, designated Zuffil2 (1). (1) has cytostatic, immunosuppressive, designated and antidiabetic, and can be used in gene therapy. (1) can be used for inhibiting, in a mammal, the activity of a ligand that binds Zuffil2 (e.g. ZINF4), for treating disorders and diseases associated with B lymphocytes, activated B lymphocytes or resting B lymphocytes, and for inhibiting the proliferation of tumour cells. (1) is useful for treating autoimmune disorders such as systemic lupus erythematosus, myasthenia continumune disorders such as systemic lupus erythematosus, myasthenia gravis, multiple sclerosis, insulin dependent diabetes mellitus, asthma, rhematoid arthritis, bronchitis, emphysema and end stage renal failure, or renal disease such as gydemerulonephritis, vasculitis, chronic lymphoid leukaemia, hephritis, and pyelonephritis, and for treating renal collassis, multiple myelones, lymphomas, light chain neuropathy, or amyloidosis, hypertenaion, large vessel diseases, graft-versus host disease, graft rejection and crohn's disease, (1) is useful for modulating the immune system, for regulating B cell responses and decombanication. The present sequence represents mouse Zuffil and beal communication. The present sequence represent invention.
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                                                                                                                                                                                                                                 Novel isolated human tumor necrosis factor receptor polypeptide, te
Ztnfr 12, useful for treating autoimmune disorders, emphysema, end
stage renal failure or renal disease and lymphoma
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                                                                                                                     Grant FJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Murine BAFF receptor (BAFF-R) protein
                                                                                                                                                                                                                                                                                                                             Disclosure; Page 140; 154pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAE22244 standard; Protein; 175 AA
28-JUN-2001; 2001US-301715P.
29-AUG-2001; 2001US-315565P.
                                                                                                                   Xu W, Henne RM,
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                                                                      INC.
                                                                   (ZYMO ) ZYMOGENETICS
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                                                                                                                   Gross JA,
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TMF) family, which is associated with the expression of Lecals and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune clussess, which can be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthenia gravis, autoimmune classes, anti-phospholipid syndrome, Wegener's gravis, autoimmune cluses, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma calls disorders e.g., multiple myeloma, Waldentrom's macrosis, heavy-chain disease, primary or immunocyte associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in protein disease, and antibodies and further be used in creening assays, in detection assays (chromosomal mapping, tissue typing or greening assays, nonlinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to raise anti-BFFR antibodies, or in the constructing drugs or compounds that modulate BAFF-R activity or expression.
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  glomerulonephritis; drug screening.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 907, DB 23; Length 175; 100.0%; Pred. No. 5.4e-87; cive 0, Mismatches 0; Indels 0
haemolytic anaemia, Chagas' disease, Grave's disease, multiple myeloma, chromosomal mapping, tissue typing,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is murine BAFF-R protein.
                                                                                                                             70..97
/label= Transmembrane domain
                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 4; Fig 4b; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disorders, or renal disorders
                                                                                                                                                                                                                                                                                                                       18-SEP-2000, 2000US-233152P.
21-SEP-2000, 2000US-224140P.
13-FEB-2010, 2001US-268499P.
14-AUG-2001, 2001US-312185P.
                                                                                                                                                                                                                                                                                06-SEP-2001; 2001WO-US28006
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Best Local Similarity 100.
Matches 175; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ambrose CM, Thompson JS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-362428/39.
N-PSDB; AAD35411.
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                                                                  Mus musculus
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QEGSALRPDVALLVGAPALLGLILALTLVGLVSWRWRQQLRTASPDTSEGVQQESLE 120
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                                               ; TRAR3-binding B cell-specific receptor; TRAR3; transduction; TNT ligand; cancer; autoimmune disease; apoplexia; infection; AIDS; bone disease; transplantation rejection; imer's disease; ischaemia; rheumatoid arthritis; cachexia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence represents a murine TRAF3-binding B cell-specific receptor. The polynucleotide and polypeptide sequence of this receptor are useful for diagnosis of abnormality due to TRAF3-mediated intracellular signal transduction and in screening drugs for diseases associated with TNF ligand family and TNF receptor-ligand superfamily e.g. cancer, autoimmune diseases, viral infections like AIDS, bone diseases, transplantation rejection, Alzheimer's disease, ischaemia, rheumatoid arthritis, apoplexia and cachexia.
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                    Amino acid sequence of murine TRAF3-binding B cell-specific receptor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tch 99.4%; Score 902; DB 23; Length 175; al Similarity 99.4%; Pred. No. 1.8e-86; 174; Conservative 0; Mismatches 1; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human BAFF receptor (BAFF-R) mutant, V20N/P21Q/A22T/L27P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 47-48; 57pp; Japanese.
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                                                                                                                                                                                                                                                           28-FEB-2001; 2001JP-0055119.
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N-PSDB; ABV72373.
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                                                                                                                                                                                                                                                                                          RIKE ) RIKEN KK.
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                                                                                                                                                                                                                                                                                                         (IRIE/) IRIE S.
(SATO/) SATO T.
                                                                                                                                                                WO200272827-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                  TRAF3-binding
                                                                                   viral infect
Alzheimer's
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence represents a murine BR3 polypeptide. The specification also describes TACI polypeptides. TACI and BR3 are receptors. Tumour necrosis factor (TNF) family ligands TALL-1 and April bind to the TACI receptor, while TNF family ligands TALL-1 also binds to BR3 receptor. The TACI and BR3 receptor nucleic acid is useful for preparing a composition for treating systemic lupus erythematosus.
                                                                                                                                                                                                                         Human; TACI; BR3; receptor; tumour necrosis factor ligand; TNF ligand;
TALL-1; April; systemic lupus erythematosus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MGARRIRVRSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGTALQP
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid encoding a TACIs or BR3 polypeptide, useful for preparing a composition for treating systemic lupus erythematosus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
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100.0%; Score 907; DB 24; Length 175;
Best Local Similarity 100.0%; Pred. No. 5.4e-87;
Matches 175; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                           Amino acid sequence of murine BR3 receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yan
                                                                                             ABP97722 standard; Protein; 175 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Fig 9A; 153pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABB78398 standard; Protein; 175 AA
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                                                                                                                                                                                                                                                                                                                                                                                                    03-AUG-2001; 2001US-310114P.
30-APR-2002; 2002US-377171P.
                                                                                                                                                                                                                                                                                                                                                                       24-JUL-2002; 2002WO-US23487
                                                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Dixit V, Grewal I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-248010/25.
N-PSDB; ABZ68876.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           175 AA;
                                                                                                                                                                                                                                                                                                        WO2003014294-A2.
                                                                                                                                                            28-MAY-2003
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                 121
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABB78398;
                                                                                                                                                                                                                                                                           Mus sp
                                                              RESULT 3
ABP97722
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Gaps

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mutant; mutein
                   WO200224909-A2
                               Ö,
       Homo sapiens
                     28-MAR-2002
                                      disorders,
                               Ambrose
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-call activating factor belonging to the Tumour Recrosis Factor (TMF) family, which is associated with the expression of B-calls and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-calls, hypertension, cardiovascular disorders, immunosuppressive diseases, renal diseases.

"In this numeration, organ transplantation and HUY Autoimmune diseases, which can be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthenia gravis, autoimmune cluseases, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma calls disorders e.g., multiple myeloma, Waldenstrom's macrosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in protein promotoring clinical trials, or pharmacogenomic, The polypeptides are further useful as immunogens that modulate BAFFR antibodies, or in the content of the properties of the properties are further useful as immunogens that modulate anti-BFFR antibodies, or in the content of the properties are further useful as immunogens that modulate BAFFR antibodies, or in the content of the properties Tumour Necrosis Factor; autoimmune disease, immunosuppressive, cancer; myasthenia gravis, hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus, genetic disorder; cardiovascular; renal; rheumatoid arthritis; systemic lupus erythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephitis; multiple myeloma; chromosomal mapping; tissue typing; drug screening; The present sequence is human BAFF-R protein mutant.

Note: The present sequence is not shown in the specification but is derived from human BAFF-R referred as SEQ ID NO: 5 (AAE22242) and shown New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular "ulb note= "Wild type Val substituted with Asn" note= "Wild type Pro substituted with 'note= "Wild type Ala substituted with /note= "Wild type Leu substituted with Location/Qualifiers Example 17; Page -; 164pp; English. the specification. or renal disorders 18-SEP-2000; 2000US-233152P. 21-SEP-2000; 2000US-234140P. 13-FEB-2001; 200IUS-268499P. 14-AUG-2001; 200IUS-312185P. 36-SEP-2001; 2001WO-US28006 Thompson JS; WPI; 2002-362428/39. (BIOJ) BIOGEN INC. Misc-difference Misc-difference Misc-difference Misc-difference ğ in fig 2d

185 AA Sequence

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9
                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumour Necrosis Pactor, autoimmune disease, immunosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeflicency virus; genetic disorder; cardiovascular; renal; rheumatoid arthritis; systemic lupus erythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening;
                                                                                                                                                                              QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE 174
                                                                                                                                                                                                                                                                                                                                                                                                                    Human; BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; TNF;
                                                                             65
                                                                      ---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV
                                                     RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTP---DTGHTSSLEPGTALQPQE---
                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular
                            16;
  Length 185;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "Wild type Pro substituted with Gln"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "Wild type Ala substituted with Thr"
                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Wild type Val substituted with
                                                                                                                                                                                                                                                                                                                                                                                           Human BAFF receptor (BAFF-R) mutant, V20N/P21Q/A22T.
Score 447; DB 23;
Pred. No. 1.2e-38;
9; Mismatches 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 17; Page -; 164pp; English
                                                                                                                                                                                                                                                                                                               AAE22267 standard; Protein; 185 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disorders, or renal disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-SEP-2000; 2000US-233152P.
21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-SEP-2001; 2001WO-US28006
              58.6%;
                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-362428/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (BIOJ ) BIOGEN INC.
               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mutant; mutein.
                                                                                                                                                                                                                    Q 175
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                                                                                                                                                                                                                                              184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
  Query Match
Best Local Simi
Matches 106;
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-call activating factor belonging to the Tumour vecrosis Factor (TMF) family, which is associated with the expression of B-calls and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal diseases, inflammation, organ transplantation and HIV. Autoimmune diseases, the amendation, organ transplantation and HIV. Autoimmune beamed, idiopathic thrombocycopaenia purpura, Chagas' disease drawe's disease, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma classical disease, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma classical disease, multiple myeloma, Waldenstrom's macroglobulinaemia, heavy-chain disease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in screening assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are further useful as immunogens to raise anti-BFFR antibodies, or in screening drugs or compounds that modulate BAFP-R activity or expression. The present sequence is human BAFF-R protein mutant.

The present sequence is not shown in the specification but is derived from human BAFF-R protein mutant.

The present sequence is not shown in the specification but is not shown in the specification but shown in the specification.
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185 AA; Sequence

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---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV 114
                                                                                                                                                                                              QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE 174
                                                                                                                                                                                                                   66 AGAGEAALPLPGLLFGAPALLGLALVLALV-LVGLVSWRRRORRLRGASSAEAPDGDKDA 124
                                                                  62
                                                                                    6 RSLRGRDAPAPTPCNQTECFDLLVRHCVACGLLRTPRPKPAGAASSPAPRTALQPQESVG 65
                                                                9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTP---DTGHTSSLEPGTALQPQE---
                                 Gaps
                                 16;
 Length 185;
                                 51;
48.2%; Score 437; DB 23; 58.0%; Pred. No. 1.3e-37;
                 Pred. No. 1.3e
9; Mismatches
                 Best Local Similaricy 50.v
Matches 105; Conservative
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 Query Match
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AAE22269 standard, Protein, 185 AA. (first entry) 25-JUL-2002 AAE22269 Human; RESULT 7 AAE22269

Human BAFF receptor (BAFF-R) mutant, V20N/P21Q.

Tumour Necrosis Factor; autoimmune disease; immunosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiancy virus; genetic disorder; cardiovascular; renal; rheumatoid arthritis; systemic lupus erythematosus; amyloidosis; haemolytic annemia; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening; BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; TNF; mutant; mutein.

sapiens Ношо Location/Qualifiers

Key

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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Nectains BAFF-R is a B-cell activating factor belonging to the Tumour necessis and immunoglobulish. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, ranal disorders, inflammation, organ transplantation and HIV. Autoimmune and sorther an activation and the Argented or prevented by BAFF-R, include systemic lawolytic anaemia, idiopathic thrombocytopaenia purpura, Chagas' disease care in thospholipid syndrome, Wegner's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma clls disorders e.g., multiple myeloma, Waldenstrom's macroglobulinaemia, heavy-chain disease, primary or immunocyte-associated amyloidosis and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in screening assays, in detection assays (chromosomal mapping, tissue typing or forensic biology), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogeneous). The polypeptides are further useful as immunogens to raise anti-BFFR activity or expression. The present sequence is human BAFF-R protein mutant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        115 QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  125 -PEPLDKVIILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPE 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63 ---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        66 AGAGEAALPIPGILFGAPALIGLALVLALV-LVGLVSWRRRQRRLRGASSAEAPDGDKDA 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ce: The present sequence is not shown in the specification but is cived from human BAFF-R referred as SEQ ID NO: 5 (AAE22242) and shown fig 2d of the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 RSLRGRDAPAPTPCNÓAECFDLLVRHCVACGLLRTPRPRPAGAASSPAPRTALOPOESVG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTP---DTGHTSSLEPGTALQPQE---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, candinherited genetic disorders involving B-cells, cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 47.6%; Score 432; DB 23; Length 185; 57.5%; Pred. No. 4.4e-37; Live 9; Mismatches 52; Indels 16
                                                                /note= "Wild type Pro substituted with Gln"
                       notes "Wild type Val substituted with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 17; Page -; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disorders, or renal disorders
                                                                                                                                                                                                                                                                  21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
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                                                                                                                                                                                                                                                                                                                                                                                                    Ambrose CM, Thompson JS;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-362428/39.
                                                                                                                                                                                                                                                                                                                                                          (BIOJ ) BIOGEN INC.
Misc-difference 20
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                                               Misc-difference
                                                                                                          WO200224909-A2
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Q 175

175

184 Q 184

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Human, BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; TNF; Tumour Necrosis Fractor; autoimmune disease; immunosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; renal,; rheumatoid arthritis; systemic lupus erythematosus; amyloidosis; haemolytic anaemia; chagas' disease; Grave's disease; glomerulonaephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmine diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular disorders, or renal disorders
                                                                                                                                                                                                                                                                                                 note= "Wild type Val substituted with Asn"
                                                                                                                                                                                                                                                                                                                          /note= "Wild type Ala substituted with Thr"
                                                                                                    Human BAFF receptor (BAFF-R) mutant, V20N/A22T.
                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 17; Page -; 164pp; English.
                         AAE22268 standard; Protein; 185 AA.
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21-SEP-2000, 2000US-234140P.
13-FEB-2001, 2001US-268499P.
14-AUG-2001, 2001US-312185P.
                                                                                                                                                                                                                                                                                                                                                                                                        06-SEP-2001; 2001WO-US28006
                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ambrose CM, Thompson JS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-362428/39,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (BIOJ ) BIOGEN INC
                                                                                                                                                                                                                                                                                                               Misc-difference 22
                                                                                                                                                                                                                                                                                      Misc-difference
                                                                                                                                                                                                                       mutant; mutein.
                                                                                                                                                                                                                                                                                                                                                      WO200224909-A2
                                                                                                                                                                                                                                                  Homo sapiens
                                                                           25-JUL-2002
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                                                AAE22268;
RESULT
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TNF) family, which is associated with the expression of B-cells and immunoglobulis. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal diseases, which can be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthenia gravis, autoimmune classes, which can be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthenia gravis, autoimmune cave's disease, anti-phospholipid syndrome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma calls disorders e.g., multiple myeloma, Waldenstrom's macrosic, calls disorders e.g., multiple myeloma, waldenstrom's macrosic, heavy-chain disease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids,

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protein, protein homologues, and antibodies may further be used in screening assays, in detection assays (chromosomal mapping, tissue typing or forensic biology), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogenomic). The prognostic are further useful as immunogens to raise anti-BFFR antibodies, or in screening drugs or compounds that modulate BAFF-R activity or expression. The present sequence is human BAFF-R protein mutant.

Note: The present sequence is not shown in the specification but is derived from human BAFF-R referred as SEQ ID NO: 5 (AAE22242) and shown in fig 2d of the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; BAFF receptor; BAFF-R; cytostatic; hypotensive; inflammation; TNF; Tumour Mecrosis Factor; autoimmune disease; lummiosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; HIV; human immunodeficiency virus; genetic disorder; cardiovascular; haral; rheumatoid arthritis; systemmic lupus arythematosus; amyloidosis; haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephritis; multiple myeloma; chromosomal mapping; tissue typing; drug screening;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 125 -PEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPE 183
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9 RSQRSRDSSVPTQCNQTECPDPLVRNCVSCELFHTP---DTGHTSSLEPGTALOPQE---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 RSLRGRDAPAPTPCNPTECFDLLVRHCVACGLLRTPRPRPAGAASSPAPRTALQPQESVG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63 ---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         115 QOESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 431, DB 23, Length 185;
Pred. No. 5.5e-37;
9; Mismatches 52; Indels 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAE22270 standard; Protein; 185 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 57.5%;
Matches 104; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-SEP-2000; 2000US-233152P.
21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                    185 AA;
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Human, BAFF receptor, BAFF-R; cytostatic; hypotensive; inflammation; TNF; Tumour Necrosis Factor; autoimmune disease; immunosuppressive; cancer; myasthenia gravis; hypertension; organ transplantation; drug screening;
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                                                                                                                                                                                                                                                                                                                                                                                                         - PEPLDKVIILSPGISDATAPAWPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPE 183
                                                                                                                                                                                                                                                                                                                                                                                 66 AGAGEAALPIPGLIFGAPALIGIALVIALV-LVGIVSWRRRORRIRGASSAEAPOGDKDA 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human BAFF receptor (BAFF-R) mutant, P21Q.
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renal; rheumatoid arthritis; systemic lupus errthematosus; amyloidosis;
haemolytic anaemia; Chagas' disease; Grave's disease; glomerulonephritis;
multiple myeloma; chromosomal mapping; tissue typing; drug screening;
HIV; human immunodeficiency virus; genetic disorder; cardiovascular;
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                                                                                                                                                                                                                                 /note= "Wild type Pro substituted with Gln"
                                                                                                                                                                                    Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                               21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
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                                                                                             mutant; mutein.
                                                                                                                                                                                                                                                                                  WO200224909-A2
                                                                                                                                           Homo sapiens
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The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TMP) family, which is associated with the expression of B-cells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune disorders, inflammation, organ transplantation and HIV. Autoimmune beemolytic anaemia, idiopathic thrombocytopaemia purpura, Chagas' disease, anti-phospholipid syndrome, Wegener's granulomacosis, poly-arteritis nodosa and rapidly progressive glomerulomephritis. Plasma cells disorders e.g., multiple myeloma, Waldenstrom's, macroglobulinaemia, have, chain adisease, primary or immunocyte-associated amyloidosis, and monoclonal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in screening assays, in detection assays (chromosomal mapping, tissue typing or forensic biology), predictive medicine (e.g. diagnostic or propnostic assays, monitoring clinical trials, or pharmacogenomic). The polypeptides are thirher useful as immunogens to rasise anti-bries antibodies, or in screening cruckers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 eening drugs or compounds that modulate BAFF-R activity or expression. present sequence is human BAFF-R protein mutant.

i. The present sequence is not shown in the specification but is ived from human BAFF-R referred as SEQ ID NO: 5 (AAE22242) and shown
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                                                               New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmuse diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular disorders, or renal disorders
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                                                                                                                                                                                    Example 17; Page -; 164pp; English
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es 103; Conservative
                    WPI; 2002-362428/39
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cancers,

Dioteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TMF) family, which is associated with the expression of useful for treating, preventing or delaying autoimmune disease, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, hypertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune diseases, inflammation, organ transplantation and HIV. Autoimmune becames, inflammation, organ transplantation and HIV. Autoimmune disorders, inflammation, organ transplantation and HIV. Autoimmune disorders, inflammation, be treated or prevented by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, myasthemia gravis, autoimmune haemolytic anaemia, idiopathic thrombocytopaenia purpura, Chagas' disease care in the phospholipid syndrome, Wegener's granninamente care properties, primary or immunocyte-associated maylodissis, poly-arteritis nodosa and rapidly progressive glomerulonephritis: Plasma cells disorders e.g., multiple myeloma, Waldenstrom's, macroglobulinaemia, monoclomal gammopathy of undetermined significance. The nucleic acids, primary or immunocyte-associated maylodissis, and monoclomal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in series, further useful as immunogens to raise anti-BFPR antibodies, or in screening drugs or compounds that modilate BAFP-R activity or expression. The present sequence is not shown in the specification but is darived from human BAFP-R protein mutant.

The present sequence is not shown in the specification but is darived from human BAFP-R protein mutant.

The present sequence is not shown in the specification but is in fig 2d of the specification. invention relates to human BAFF receptor (BAFF-R) nucleic acids and 185 AA; Sequence

16; Gaps Score 423; DB 23; Length 185; Pred. No. 3.8e-36; Indels 53; 9; Mismatches 46.6%; Matches 103; Conservative Query Match Best Local Similarity

62 65 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTP----DTGHTSSLEPGTALQPQE--σ

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(first entry)

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                                                       - PEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPE 183
                                        QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE 174
---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour
             AGAGEAAL PLPGLLFGAPALLGLALVLALV-LVGLVSWRRRQRRLGGSAEAPDGDKDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                     'note= "Alternative splice acceptor site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                       105..108
/note= "Stop transfer signal"
                                                                                                                                                                                                                                                                                                                                                                                                                                  73..100
/label= Transmembrane_domain
                                                                                                                                                                                                                                                                                                                                                                      19..35
/note= "Four cysteine motif"
                                                                                                                                                                                                                                                                                                                                                                                                                          "Hydrophobic region"
                                                                                                                                                                                                                     Human mature JST576 (BAFF-R) protein.
                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                        AAE22242 standard; Protein; 185 AA.
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21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
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N-PSDB; AAD35409.
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CC Necrosis Factor (TNF) family, which is associated with the expression of concert and immunoglobulins. The BAFF-R proteins, DNA and antibodies are useful for treating, preventing or delaying autoimmune diseases, cancer, tumourigenic conditions or inherited genetic disorders involving B-cells, typertension, cardiovascular disorders, immunosuppressive diseases, renal diseases, which can be treated or prevented by BAFF-R, include systemic diseases, which can be treated or prevented by BAFF-R, include systemic conditions and the interest of prevented by BAFF-R, include systemic conservation, organ transplantation and HIV. Autoimmune diseases, which can material arthritis, myasthenia gravis, autoimmune conservated and idiopathic thrombocytopeania purpura, chagas' disease crave's disease, anti-phospholipid syndrome, Wegener's granulomatosis, conservated disease, primary or immunocytopathic syndromes, macrolometrosis, and chartering assay, in detection will apply syndromes, and should apply conservated amyloidosis, and conservated and antibodies and syndromes, assays, monitoring clinical trials, or pharmacogeneous or incensic biology), predictive medicine (e.g. diagnostic or prognostic assays, monitoring clinical trials, or pharmacogeneous). The present sequence is human mature JSTS76 (BAFF-R) protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         115 QQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPE 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           63 ---GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGAASSPAPRTALQPQESVG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTP---DTGHTSSLEPGTALQPQE---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Match 46.0%; Score 417; DB 23; Length 185; Local Similarity 56.4%; Pred. No. 1.6e-35; es 102; Conservative 9; Mismatches 54; Indels 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human JST576 (BAFF-R) cDNA spliced version encoded protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAE22243 standard; Protein; 266 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 185 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200224909-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAE22243;
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Human Ztnfr12 protein SEQ ID NO:2.
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                                                                                                                                                                                                                                     The invention relates to human BAFF receptor (BAFF-R) nucleic acids and proteins. BAFF-R is a B-cell activating factor belonging to the Tumour Necrosis Factor (TMF) family, which is associated with the expression of B-cells and immunoglobulins. The BAFF-R proteins, DNA and antibodies are tumourigenic conditions or inherited genetic disorders involving B-cells, typertension, cardiovascular disorders, immunosuppressive diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune diseases, renal disorders, inflammation, organ transplantation and HIV. Autoimmune be treated or prevenced by BAFF-R, include systemic lupus erythematosus, rheumatoid arthritis, wyasthenia gravis, autoimmune haemolytic anaemia, idiopathic thrombocytopaemia purpura, Chagas' disease crave disease, anti-phospholipid syncome, Wegener's granulomatosis, poly-arteritis nodosa and rapidly progressive glomerulonephritis. Plasma cells disorders e.g. multiple myeloma, Waldenstrom's macroglobulinaemia, neonoclomal gammopathy of undetermined significance. The nucleic acids, protein, protein homologues, and antibodies may further be used in screening assays, in detection assays (chromosomal mapping, tissue typing or forensic biology), predictive medicine (e.g. diagnostic or protein, creating drugs or compounds that medulate BAFF-R activity or expression.

The present sequence is human mature JSTS76. (BAFF-R) cDNA spliced version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                139
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                108 PDTSEGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVT 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       59 QPQE-----GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      140 ÓPÓESVGAGAGEAALPLPGLÍFGAPALÍGLALVLALV-LVGLVSWRRRÓRRLRGASSAEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MGARRLRVRSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHT -- PDTGHTSSLEPGTAL
                                                                                                                                               New human BAFF receptor proteins and nucleic acids, useful for treating, preventing or delaying e.g. autoimmune diseases, cancers, inherited genetic disorders involving B-cells, cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *Match 45.8%; Score 415.5; DB 23; Length 266; Local Similarity 54.8%; Pred. No. 3.9e-35; Local Similarity 54.8%; Pred. No. 3.9e-35; Local Similarity 10; Mismatches 60; Indels 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence is human matu containing 5' UTR encoded protein.
                                                                                                                                                                                                                   Example 3; Fig 3; 164pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABB81483 standard; Protein; 184
                                                                                                                                                                                         disorders, or renal disorders
21-SEP-2000; 2000US-234140P.
13-FEB-2001; 2001US-268499P.
14-AUG-2001; 2001US-312185P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                              Thompson JS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TKTAGPEQ 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TKTAGPEQ 265
                                                                                                        WPI; 2002-362428/39.
N-PSDB; AAD35410.
                                                    (BIOJ ) BIOGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         266 AA;
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Best Local Si
Matches 103;
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                                                                               Ambrose
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The present sequence represents a human tumour necrosis factor receptor designated Znfr12 [1]. [1] has cytostatic, immunosuppressive, designated Znfr12 [1]. [1] has cytostatic, immunosuppressive, designated Znfr12 antiathabetic, and can be used in gene therapy. [1] can be used for activity of a ligand that binds Znfr12 [1] in a mammal, the activity of a ligand that binds Znfr12 [1] in a mammal, the activity of a ligand that binds Znfr12 [1] in the proliferation of tumour cells. [1] is useful for treating autoimmune disorders such as systemic lupus erythematosus, myashenia gravis, multiple sclerosis, insulin dependent diabetes mellitus, asthma, replaces such as glomerulonephritis, and for treating renal leukaemis, nephritis, bronchitis, emphysema and charactic arthritis, and pyelonophritis, and for treating renal neoplasms; multiple myelomes, light chain neuropathy, or amyloidosis, hypertension, large vessel diseases, graff rejection and crohn's disease, graff rejection and crohn's disease, graff rejection and crohn's disease. [1] is useful for modulating the immune system, for requlating B cell responses and development, for modulating development of other cells, antibody production, and for modulating T and B cell communication. Human Ztnfr12 is located to chromosome 22q13.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          62
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                           immunosuppressive, dermatological, antiliffammatory; antidiabetic; new morrotective; antirheumatic; antiathratic; antiathmatic; nephrotropic, hypotensive, antiathratic; almours autoimmune disorder; systemic lupus erythematosus; myasthemia gravis; multiple solerosis; insulin dependent diabetes mellitus; arethma; rheumatoid arthritis; bronchitis; emphysems; renal disease; lymphoma; glomerulonephritis; vanculitis; chronic lymphoid leukaemia; nephritis; pepalometrial moplasm; multiple myelonea; myloidosis; light chain neuropathy; hypertension; large vessel disease; graft-versus host disease; graft rejection; Crohn's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHT--PDTGHTSSLEPGTALQPQE----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel isolated human tumor necrosis factor receptor polypeptide, Ztnfr 12, useful for treating autoimmune disorders, emphysema, er stage renal failure or renal disease and lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match
Local Similarity 56.1%; Pred. No. 7.8e-35;
les 101; Conservative 9; Mismatches 55; Indels 15;
    cytostatic;
tumour necrosis factor receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Grant FJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-NOV-2000; 2000US-246449P.
20-DEC-2000; 2000US-257131P.
28-JUN-2001; 2001US-301715P.
29-AUG-2001; 2001US-315565P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-NOV-2001; 2001WO-US47018.
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N-PSDB; ABN89426.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      chromosome 22q13.2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200238766-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
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Matches
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9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHT--PDTGHTSSLEPGTALQPQE----

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to fusion proteins comprising transmembrane activator and calcium modulator and cyclophilin ligand-interactor (TACI) receptor group that binds tumour necrosis factor-like protein (ZTNF)2 or ZTNF4; and an immunoglobulin group comprising a constant region of an immunoglobulin. The invention is used to manufacture a medicament for inhibiting the proliferation of tumour cells in a mammalian subject. Iterating autoimmune diseases (e.g. systemic lupus erythematosus, multiple sclerosis, diabetes mellitus, rheumatoid arthritis and asthma), renal diseases (e.g. glomerulomphritis), bronchitis, inflammation, graft rejection, anaemia and septic shock. The fusion proteins are also used in gene therapy. The present sequence is human Ztnfr12
             --GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGVQ 115
                                                                                   124 PEPLDKVIILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPEQ 183
                                                                                                                                                                                                                                                                     Transmembrane activator; calcium modulator; nephrotropic; antibacterial; TACI; tumour necrosis factor-like protein; ZTNF2; ZTNF4; immunoglobulin; anamania; gene therapy; cytostatic; antiinflammatory; immunosuppressive; glomerulonephritis; asthma; bronchitis; graft rejection; septic shock; dermatological; neuroprotective; cyclophilin ligand-interactor; human; autoimmune disease; systemic lupus erythemarosus; multiple sclerosis; diabetes mellitus; rheumatoid arthritis; renal disease; inflammation;
                                   GAGEAALPLPGILFGAPALLGLALVLALV-LVGLVSWRRRQRRLRGASSAEAPDGDKDA-
                                                                 QESLENVEVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transmembrane activator and calcium modulator and cyclophilin
ligand-interactor (TACI)-immunoglobulin fusion protein, for treating
cancer or diabetes, comprises a TACI receptor group and an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 410.5; DB 24; Length 184;
Pred. No. 7.8e-35;
9; Mismatches 55; Indels 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Column 136-137; 71pp; English.
                                                                                                                                                             AAE35227 standard; Protein; 184 AA.
                                                                                                                                                                                                                                            Human Ztnfr12 receptor protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 56.1%;
Matches 101; Conservative 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-MAY-2002; 2002WO-US15910.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-MAY-2001; 2001US-293343P
                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ZYMO ) ZYMOGENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunoglobulin group
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gross JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2003-148455/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          184 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 receptor protein.
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                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rixon MW,
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Gaps

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--GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGVQ 115
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            183
                                                                                                                                                                                                                                   124 PEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPEQ 183
                                                                                                                                   66 GAGEAALPLFGLLFGAPALLGLALVLALV-LVGLVSWRRRQRRLRGASSAEAPDGDKDA- 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              65
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; TACI; BR3; receptor; tumour necrosis factor ligand; TNF ligand;
TALL-1; April; systemic lupus erythematosus.
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6 RSIRGRDAPAPTPCVPAECFDLIVRHCVACGILRTPRPKPAGASSPAPRTALQPQESVGA
                                                                             63 --GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGVQ
                                                                                                                                                                                                   116 OESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ
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56.1%; Pred. No. 7.8e-35;
iive 9; Mismatches 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Amino acid sequence of human BR3 receptor.
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Search completed: February 5, 2004, 17:59:02 Job time : 37.4583 secs

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Sequence 60, Appl
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Sequence 7, Appli
Sequence 14, Appli
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1256.294 Million cell updates/sec
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| cgn2_6/prodata/2/pubpaa/USG7_pubCOMB.pep:*
| cgn2_6/prodata/2/pubpaa/PGG_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG6_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG6_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG6_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG7_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG8_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG8_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG8_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG8_NEW_PUB.pep:*
| cgn2_6/prodata/2/pubpaa/USG8_PUBCOMB.pep:*
GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
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US-10-251-947-2

US-10-251-94-6

US-10-008-063-2

US-10-251-947-4

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-10-251-947-4
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US-10-077-438-7
US-10-077-137-1
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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907
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7-137-10-01-311	-10-068-725	0-151-	-10-115-19	-10-008-063	-10-152-363A-	-10-145-206-19	-10-237-496-5	-10-242-074-5	-10-242-505-5	-10-242-574-5	-10-243-261-5	-10-243-282-5	-10-243-402-5	-10-243-431-5	10-245-164-5	-10-210-951-3	-10-244-972-5	-10-197-942-5	-10-211-884-3	-10-238-196-5	-10-245-013-5	-10-245-103-	-10-245-107-5	-245-143-5	-10-245-771-5	-10-245-851-	-10-245-883-5	US-10-237-535-54	-10-238-183-5	
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ALIGNMENTS

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61 QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLE 120
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             Sequence 13, Application US/10008063
Publication No. US20030092164A1
GENERAL INPORMATION:
APPLICANT: Gross, Jane A.
APPLICANT: Henne, Randal M.
APPLICANT: Henne, Randal M.
TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor; FILE REFERENCE: 00-103
CURRENT APPLICATION NUMBER: US/10/008,063
CURRENT FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 46
SOFTWARE: FRAESEQ for Windows Version 4.0
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100.0%; Pred. No. 5.4e-81;
ive 0; Mismatches 0;
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Best Local Similarity 100.
Matches 175; Conservative
                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Mouse
US-10-008-063-13
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APPLICANT: Gross, Jane A.
APPLICANT: Xu, Wenfeng
APPLICANT: Xu, Wenfeng
APPLICANT: Grant, Francis, J.
APPLICANT: Grant, Francis, J.
TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor
FILE REFERENCE: 00-103
CURRENT APPLICATION NUMBER: US/10/008,063
NUMBER OF SEQ ID NOS: 46
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Rixon, Mark W. APPLICANT: Gross, Jane A. TITLE OF INVENTION: TACI-Immunoglobulin Fusion Proteins FILE REFERENCE: 01-20
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45.3%; Score 410.5; DB 15;
Best Local Similarity 56.1%; Pred. No. 2.8e-32;
Matches 101; Conservative 9; Mismatches 55;
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CURRENT FILING DATE: 2002-05-20
PRIOR APPLICATION NUMBER: 60/293,343
PRIOR FILING DATE: 2001-05-24
NUMBER OF SEQ ID NOS: 70
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-152-363A-60
; Sequence 60, Application US/10152363A
; Publication No. US20030103986A1
; GENERAL INFORMATION;
                         ; Sequence 2, Application US/10008063; Publication No. US20030092164A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-008-063-2
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 185;
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Publication No. US20030099990A1
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
FILE REPERENCE: 01-1160-A
CURRENT APPLICATION NUMBER: US/10/251,947
CURRENT FILING DATE: 2002-09-20
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 6: LENGTH: 170
Sequence 2, Application US/10251947

Sequence 2, Application US/10251947

GENERAL INFORMATION: US2003009990A1

APPLICANT: Hsu, Hailing

TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof

FILE REFERENCE: 01-1160-A

CURRENT APPLICATION WUMBER: US/10/251,947

CURRENT FILING DATE: 2002-09-20

NUMBER OF SEQ ID NOS: 14

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 2
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                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
47.6%; Score 431.5; DB 15;
Best Local Similarity 56.4%; Pred. No. 2.4e-34;
Matches 102; Conservative 10; Mismatches 54; 1
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45.4%; Score 412; DB 15;
Best Local Similarity 55.4%; Pred. No. 1.8e-32;
Matches 98; Conservative 9; Mismatches 48;
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Homo sapiens
US-10-251-947-2
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63 --GSALRPDVALLVGAPALLGLILALTLVGLVSUVSWRWRQ-QLRTAS----PDTSEGVQ 115 66 GAGEAALPIPGILFGAPALIGIALVLALV-IVGLVSWRRRQRRRGASSAEAPDGDKDA- 123 116 QESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ 175 124 PEPLDKVIILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATBLGSTELVTTKTAGPEQ 183 66 GAGEÁAL PLPGLLFGAPÁLLGLALVLALV-LVGLVSWRRRÓRRLRGÁSSAEAPDGDKDA- 123 116 QESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ 175 6 RSIRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGASSPAPRTALQPQESVGA 65 6 RSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPRPAGASSPAPRTALQPQESVGA 63 --GSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ-QLRTAS----PDTSEGVQ 9 RSQRSRDSSVPTQCNQTECPDPLVRNCVSCELFHT--PDTGHTSSLEPGTALQPQE----9 RSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHT--PDTGHTSSLEPGTALQPQE---Indels 15; Gaps Query Match
Best Local Similarity 56.1%; Pred. No. 2.8e-32;
Matches 101; Conservative 9; Mismatches 55. DB 15; Length 184;

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OTHER INFORMATION: D
OTHER INFORMATION: D
OTHER INFORMATION: A
FEATURE:
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OTHER INFORMATION:
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OTHER INFORMATION:
OTHER INFORMATION:
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NAME/KEY: UNSURE
LOCATION: (132)
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COCATION: (126)
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NAME/KEY: UNSURE
LOCATION: (133)
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LOCATION:
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NAME/KEY:
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124 PEPLDKVIILSPGISDATAPAMPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPEQ 183
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               118 SLENVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKTAGPEQ 175
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
44.3%; Score 401.5; DB 15; Length 171;
Best Local Similarity 55.1%; Pred. No. 1.9e-31;
Matches 98; Conservative 9; Mismatches 48; Indels 23;
                                                                                                                             Sequence 4, Application US/10251947
Publication No. US20030099990A1
GENERAL INFORMATION:
APPLICANT: Hau, Hailing
TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
FILE REFERENCE: 01-1160-A
CURRENT PILING DATE: 2002-09-20
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 4
LENGTH: 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 7, Application US/10251947

Sequence 7, Application US/10251947

Publication No. US2003009990A1

APPLICANT: Hsu, Hailing

TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
FILE REPERRNCE: 0.1-1460-A

CURRENT APPLICATION NUMBER: US/10/251,947

CURRENT FILING DATE: 2002-09-20

NUMBER OF SEQ ID NOS: 14

SOFTWARE: Patentin Ver. 2.0
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
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LENGTH: 171
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US-09-854-864-5
Query Match
Best Local S
Matches 54
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16; Gaps
                                                         NAME/KEY: UNSURE LOCATION: (134)
OTHER INFORMATION: "Xaa" can be any naturally occurring amino acid, OTHER INFORMATION: or is absent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION: (138)
OTHER INFORMATION: "Xaa" can be any naturally occurring amino acid, OTHER INFORMATION: or is absent.
  "Xaa" can be any naturally occurring amino acid,
                                                                                                                                                                                                          "Xaa" can be any naturally occurring amino acid, or is absent.
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APPLICANT: Xu, Wenfeng
APPLICANT: Theme, Randal M.
APPLICANT: Henne, Randal M.
TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor
FILE REFERENCE: 00-103
CURRENT APPLICATION NUMBER: US/10/008,063
CURRENT APPLICATION NUMBER: US/10/008,063
SOFTWARE: 2001-11-05
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 42
LENGTH: 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 395; DB 15;
Pred. No. 9.3e-31;
8; Mismatches 60;
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US-10-008-063-42
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Publication No. US20030092164A1
GENERAL INFORMATION:
  OTHER INFORMATION: "Xaa" can be OTHER INFORMATION: or is absent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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Best Local Similarity 53.8%;
Matches 98; Conservative
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NAME/KEY: UNSURE
LOCATION: (136)
OTHER INFORMATION: ".
FEATURE:
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NAME/KEY: UNSURE
LOCATION: (135)
OTHER INFORVATION: "
OTHER INFORMATION: O
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LOCATION: (137)
OTHER INFORMATION: "
OTHER INFORMATION: O
FEATURE: UNSURE
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EQ 186
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APPLICANT: THEILL, LARS EYDE
APPLICANT: THEILL, LARS EYDE
APPLICANT: YU, GANG
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,
TITLE OF INVENTION: BLYS/AGP-3, AND TACI
FILE REFERENCE: A-686B
CURRENT APPLICATION NUMBER: US/09/854,864
CURRENT FILING DATE: 2001-09-11
PRIOR FILING DATE: 2000-06-12
PRIOR PLING DATE: 2000-06-12
PRIOR FILING DATE: 2000-06-27
PRIOR FILING DATE: 2000-06-27
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                                                                                                                                                                                                                                    67 RPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLENVFVPS 126
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Publication No. US20030148445A1
GENERAL INFORMATION:
APPLICANT: Shu, Hong-Bing
TITLE OF INVENTION: TALL-1 NUCLEIC ACID MOLECULES, PROTEINS, RECEPTORS AND
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 2879-72
CURRENT PELLING DATE: 2003-03-12
PRIOR APPLICATION NUMBER: US/09/565,423
PRIOR PLILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: UNKNOWN
PRIOR FILING DATE: 2000-05-05
PRIOR FILING DATE: 2000-05-05
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                                                                                                                                                         9 RSORSRDSSVPTQCNQTECFDPLVRNCVSCELFHT--PDTGHTSSLEPGTALQPQEGSAL
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                                                                                                                                                                                                                                                                                                                                                                                                             101 SDKTHTCPPCPAPEAEGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPE 153
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th 16.6%; Score 150.5; DB 15; Length 328; Similarity 31.2%; Pred. No. 1.8e-06; 54; Conservative 11; Mismatches 57; Indels 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12.8%; Score 116.5; DB 9; Length 181; 29.4%; Pred. No. 0.0018;
                                                                                                                                                                                                                                                                                                   82 -----VGAGA------GEAALV------PRGSE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 5, Application US/09854864 Patent No. US20020081296Al GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : PatentIn version 3.1
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 50; Conserv
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81 GLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQE-----SLENVFVPSSET-- 129
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APPLICANT: Ambrose, Christine
APPLICANT: Ambrose, Christine
APPLICANT: Achopop, Jurga
APPLICANT: Thompson, Jeffrey
APPLICANT: Thompson, Jeffrey
APPLICANT: Bassal, APPLICANT: Bassal, APPLICANT: Bassen, Inc.
APPLICANT: Apotech R&D S.A.
TITLE OF INVENTION: Baff Receptor (BCMA), An
TITLE OF INVENTION: Immunoregulatory Agent
FILE REFERENCE: A080PCT
CURRENT APPLICATION NUMBER: 60/149,378
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/149,378
PRIOR APPLICATION NUMBER: 60/149,378
                                                                                                                                                                                                                                                                                       APPLICANT: Browning, Jeffrey
APPLICANT: Ambrose, Christine
APPLICANT: Schopp, Jurg
APPLICANT: Schopp, Jurg
APPLICANT: Schopp, Jurg
APPLICANT: Trachopp, Jurg
APPLICANT: Thompson, Jeffrey
APPLICANT: Blogen, Inc.
APPLICANTION: Immunoregulatory Agent
FILIS REFERENCE: A080PCT
CURRENT APPLICATION NUMBER: US/10/077,438
PRIOR APPLICATION NUMBER: 60/149,378
PRIOR PILING DATE: 1999-08-17
PRIOR PILING DATE: 2000-02-18
PRIOR FILING DATE: 2000-02-11
PRIOR FILING DATE: 2000-02-11
PRIOR FILING DATE: 2000-02-11
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Publication No. US20020165156A1
GENERAL INFORMATION:
APPLICANT: MacKay, Fabienne
                                                                                                                                                                Sequence 1, Application US/10077438 Publication No. US20020165156A1 GENERAL INFORMATION:
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Best Local Similarity 29.4%
Matches 50; Conservative
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US-10-077-438-1
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APPLICANT: Markowatz, Sanford David
APPLICANT: Markowatz, Sanford David
APPLICANT: Markowatz, Sanford David
APPLICANT: Case Western Reserve University
APPLICANT: Case Western Reserve University
TITLE OF INVENTION: No. 1920030125820ALD Methods of Diagnosis of Metastatic Colorect
TITLE OF INVENTION: Modulators of Metastatic Colorectal Cancer
TITLE OF INVENTION NUMBER: US/10/087,080
CURRENT FILING DATE: 2001-02-27
PRIOR FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: US 60/281,149
PRIOR FILING DATE: 2001-04-02
PRIOR FILING DATE: 2001-04-07
SOFTWARE: PATENTING DATE: 2001-04-17
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12.8%; Score 116.5; DB 12; Length 184;
Best Local Similarity 29.4%; Pred. No. 0.0019;
Matches 50; Conservative 21; Mismatches 64; Indels 35; Gaps
                                                                                                                                                                                                                                                                                                                                     Query Match 12.8%; Score 116.5; DB 12; Length 184; Best Local Similarity 29.4%; Pred. No. 0.0019; Matches 50; Conservative 21; Mismatches 64; Indels 35; Gaps
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   PRIOR APPLICATION NUMBER: 60/132,892
PRIOR FILING DATE: 1999-05-06
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Publication No. US20030235820A1
                                                            NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 11
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FEATURE:
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US-10-216-074-11
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81 GLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQE-----SLENVFVPSSET-- 129
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                                                                                                                                                                                                                                                                                                                 Query Match 12.8%; Score 116.5; DB 14; Length 184; Best Local Similarity 29.4%; Pred. No. 0.0019; Matches 50; Conservative 21; Mismatches 64; Indels 35; Gaps
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| Sequence 1, Application US/10077137
| Publication No. US20020172674A1
| GENERAL INFORMATION:
| GENERAL INFORMATION:
| APPLICANT: Machony, Jeffrey
| APPLICANT: Techopy, Jurg
| APPLICANT: Techopy, Jurg
| APPLICANT: Thompson, Jeffrey
| APPLICANT: Thompson, Jeffrey
| APPLICANT: Hompson, Jeffrey
| APPLICANT: Blogen, Inc.
| TITLE OF INVENTION: Baff Receptor (BCMA), An
| TITLE OF INVENTION: Mamunoregulatory Agent
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CURRENT APPLICATION NUMBER: US/10/07,137
CURRENT FILING DATE: 2001-02-15
PRIOR APPLICATION NUMBER: 60/149,378
PRIOR PILING DATE: 1999-08-17
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: 60/181,684
PRIOR PELING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: 60/183,536
PRIOR PELING DATE: 2000-02-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1
LENGTH: 184
TYPE: PRI
ORGANISM: homo sapien
US-10-077-137-1
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: 60/183,536
PRIOR FILING DATE: 2000-02-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PASISEQ for Windows Version 4.0
SEQ ID NO 7
LENGTH: 184
                                                                                                                                                                                                      TYPE: PRT
CORGANISM: homo sapien
US-10-077-438-7
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Sequence 11, Application US/09565423

Patent No. 6475987

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Shu, Hong-Bing

TITLE OF INVENTION:

TITLE OF INVENTION:

METHODS OF USE THEREOF

TITLE OF INVENTION:

METHODS OF USE THEREOF

CURRENT APPLICATION NUMBER: US/09/565,423

CURRENT PAPLICATION NUMBER: UNKNOWN

PRIOR FILING DATE: 2000-05-05

PRIOR FILING DATE: 1000-05-01

PRIOR FILING DATE: 1000-05-06

NUMBER OF SEQ ID NOS: 17
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Sequence 17, Application US/09565423
Patent No. 6475987
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: TALL-1 NUCLEIC ACID MOLECULES, PROTEINS, RECEPTORS AND TITLE OF INVENTION: METHODS OF USE THEREOF FILE REPERENCE: 2879-72
CURRENT APPLICATION NUMBER: US/09/565,423
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PCT-US95-01829-4
PCT-US95-14922-2
PCT-US95-14922-2
US-09-252-991A-22482
US-08-08-428B-61
US-08-428B-61
US-08-46-61A-61
US-08-46-61A-61
US-09-105-343A-2
US-09-105-343A-2
US-07-999-280A-24
US-08-426-279-24
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      88887777777666666
                                         US-09-565-423-17
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                                       Query Match
Best Local S:
Matches 50
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Sequence 17, Appl
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Sequence 11, Appl
Sequence 4, Appl
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2, App
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Sequence 172
Sequence 2,
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2: /cgn2 6/ptcdata/1/iaa/5B_COMB.pep:*
3: /cgn2 6/ptcdata/1/iaa/6A_COMB.pep:*
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5: /cgn2 6/ptcdata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2 6/ptcdata/1/iaa/PCTUS_COMB.pep:*
                      5.1.6
Compugen Ltd.
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US-09-451-527-49
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US-09-451-527-49
US-08-145-640-44
US-08-445-640-44
US-08-447-314-4
US-08-447-314-4
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US-08-447-314-4
US-08-447-314-4
US-08-447-318-4
US-08-447-318-4
US-08-36-313A-2
US-08-447-318-4
US-08-36-313A-2
US-08-36-313A-2
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US-08-36-313A-3
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PCT-US95-01775-2
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                    GenCore version (c) 1993 - 2004
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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length: 2000000000
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Perfect score:
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Maximum |
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Application US/09451527
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Best Local Similarity
Matches 42; Conserv
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APPLICANT: Sim, Gek-Kee
APPLICANT: Srag, Shumin
APPLICANT: Dreitz, Matthew J.
APPLICANT: Machew J.
TITLE OF INVENTION: CANINE AND FELINE IMMUNOREGULATORY PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                             21 QCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGTALQPQEGSALRPDVALLV-GAPAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 OCFHSEYFDSLLHACKPC----HLRCSNPPATCOPY----CDPSVTSSVKGTYTV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          117 ----ESLE-NVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVPATELGSTELVTTKT
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                                                                                                                                                                                                                                                                                                                       ; DB 4; Length 185; .0079;
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10.4%; Score 94; DB 4; Length 265;
Best Local Similarity 29.2%; Pred. No. 0.076;
Matches 42; Conservative 11; Mismatches 59; Indels
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CURRENT APPLICATION NUMBER: US/09/322,409
CURRENT FILING DATE: 1999-05-28
EARLIER APPLICATION NUMBER: 60/087,306
EARLIER FILING DATE: 1998-05-29
NUMBER OF SEQ ID NOS: 154
SOFTWARE: PATENTIN NOS: 154
SEQ ID NO 49
CURRENT FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: UNKNOWN
PRIOR FILING DATE: 2000-05-01
PRIOR PLING DATE: 1990-05-06
NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver: 2.1
FROM: Information No. 17
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Patent No. 6471957
                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 29.4
Matches 53; Conservative
                                                                                                                                                                                                                               ; TYPE: PRT
; ORGANISM: Mus musculus
US-09-565-423-17
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; TYPE: PRT
; ORGANISM: Felis catus
US-09-322-409-49
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RESULT 4 US-09-451-527-49

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148 RNFSGCLELQCQPDS----STPLPPRSPRALEATALPAPQAPLLLLLLLLLPVALLL 199
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APPLICANT: Wonderling, Ramani S.

TITLE OF INVENTION: CANINE AND FELINE IMMUNOREGULATORY PROTEINS, NUCLEIC TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF FILE REPRENCE: IM-2-C2 CURRENT APPLICATION NUMBER: 05/9451,527 CURRENT PILING DATE: 1999-12-01 EARLIER APPLICATION NUMBER: 09/322,409 EARLIER APPLICATION NUMBER: 09/322,409 EARLIER APPLICATION NUMBER: 09/322,409 EARLIER APPLICATION NUMBER: 09/05-28 EARLIER PILING DATE: 1999-05-29 EARLIER PILING DATE: 1998-05-29 COMMUNER : 05/097,306
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APPLICANT: Sim, Gek-Kee
APPLICANT: Tang, Shumin
APPLICANT: Dreitz, Matthew J.
APPLICANT: Wonderling, Ramani S.
TITLE OF INVENTION: CANINE AND FELINE IMMUNOREGULATC
TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
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; Pred. No. 0.086;
11; Mismatches 59
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; Pred. No. 0.076;
11; Mismatches 5
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CURRENT FILING DATE: 199-05-28
EARLIER APPLICATION NUMBER: 60/087,306
EARLIER FILING DATE: 1998-05-29
NUMBER OF SEQ ID NOS: 154
SOFTWARE: Patentin Ver. 2.0
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Best Local Similarity 29.2%;
Matches 42; Conservative 1:
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SEQ ID NO 49
LENGTH: 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          42; Conservative
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; ORGANISM: Felis catus
US-09-451-527-49
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ORGANISM: Felis catus
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APPLICANT: Sim, Gek-Kee
APPLICANT: Sim, Gek-Kee
APPLICANT: Stan, Ghumin
APPLICANT: Brang, Shumin
APPLICANT: Wonderling, Ramani S.
TITLE OF INVENTION: CANINE AND FELINE IMMUNOREGULATORY PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
FILE REFERENCE: IM-2-C2
CURRENT APPLICATION NUMBER: US/09/451,527
CURRENT PILING DATE: 1999-12-01
EARLIER FILING DATE: 1999-05-28
EARLIER FILING DATE: 1999-05-28
EARLIER FILING DATE: 1998-05-29
NUMBER OF SEQ ID NOS: 174
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 44
LENGTH: 291
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89 VGLVSLVSW---RW----RQQLRTASP-----DTSEGVQQESLENVFVPSSETPHA 132
                                           200 MSAAWCLEWRRRRWRTPYPREORKTLRPRERNHLPEDTEPGLGESOLET----GSFLDHA 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      33 RNCVSC-ELFHTPDTGHTSSLEPGTALQPQEGSALRPDVALLVGAPALLGLIL---ALTL 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
10.4%; Score 94; DB 4; Length 291;
Best Local Similarity 29.2%; Pred. No. 0.086;
Matches 42; Conservative 11; Mismatches 59; Indels 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 11, Application US/08976255

Sequence 11, Application US/08976255

Patent No. 6136581

APPLICANT: JOONGEN, Gregory
APPLICANT: Plowmen, Gregory
APPLICANT: JOONGENES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: Gaile 4700
CITY: Los Angeles
CONNTRY: Los Angeles
CONNTRY: US.A.
AZIP: Gailfornia
CONNTRY: US.A.
AZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               133 SAPTWPPLKEDADSALPRHSVPVP 156
                                                                                                133 SAPTWPPLKEDADSALPRHSVPVP 156
                                                                                                                                                 256 APLTLPPGWRQRQPPTPAPDPPIP 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             256 APLTLPPGWROROPPTPAPDPPIP 279
                                                                                                                                                                                                                                               US-09-451-527-44
; Sequence 44, Application US/09451527
; Patent No. 6482403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
CORGANISM: Felis catus
US-09-451-527-44
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APPLICANT: Marc J. Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
TITLE OP INVENTION: NUCLEEC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: NUCLEEC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS FILE REFERENCE: 107196.136
CURRENT PEPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/074,190
PRIOR PILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30595
LENGTH: 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         57 ALQP----QEGSALRPDVALLVGAPALLGLILALTLVGLVSLVSWRWRQ------ 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   102 --QLRTASPDTS-----EGVQQESLENVFVPSSETPHASAPTWPPLKEDADSALPRHSV 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       789 EPKLATEAEGTTGPRLPLPSVPSPSQEGAPLPSEE---ASAP-----DAPDALPDSPT 838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               734 PGEPLLGLQAASAQEPGC----CPGLPHLCSAQGLAPAPCLVTPSWTETASSGGDHPQA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MGARRL----RVRSQRSRDSSVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 10.4%; Score 94; DB 3; Length 1384; Best Local Similarity 26.5%; Pred. No. 0.74; Matches 54; Conservative 23; Mismatches 79; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                74;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
9.5%; Score 86.5; DB 4;
Best Local Similarity 27.5%; Pred. No. 0.7;
Matches 44; Conservative 15; Mismatches 74;
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOOTWARE: FASISCR for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/976,255
FILING DATE: NO. 6136581ember 21, 1997
FILING DATE: NO. 6136581ember 21, 1997
APPLICATION NUMBER: 60/031,675
FILING DATE: NO. 6136581ember 22, 1996
ATTORNEY/AGENT INFORMATION:
NAME: WALDING, ALCHARD,
REGISTRATION NUMBER: 32,327
REJERRING/DOCKET NUMBER: 229/182
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEFAX: (213) 955-0400
TELEFAX: (213) 955-0410
TELEFAX: (213) 955-0400
TELEFAX: (213) 955-0410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 30595, Application US/09252991A
Patent No. 6551795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    154 PVPATELGSTELVTT---KTAGPE 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              839 PATGGEVSAIKLASALNGSSSSPE 862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ) ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1384 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear
MOLECULE TYPE: Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-252-991A-30595
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149. PRHSVP-VP 156
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER:
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US-08-447-314-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96 SWR--WRQQLRTASPDTSEGVQQESLENVFVPS----SETPHASAPTWPPLKEDADSAL 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        438 LWRLHWRRLLSKAE---RRVLEBELTVHLSVPGDTILINNRPGPREP---PYQEPRPRGN 492
                                                                                                                           44 PDTGHTSSLEPGTALQPQ-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV 95
SSVPTQCNQTECFDPLVRNCVSCELFHTPDTGHTSSLEPG--TALQP--QEGSALRPDVA 71
                                          27 STAPSSCRATSISSPSPR--VEGE----PSHGGTKPLRRGRRTAIIACLNAGGETVPAHR 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.4%; Score 85.5; DB 1; Length 913; 30.2%; Pred. No. 3.1;
                                                                                          72 LLVGAPALLGLILALTLVGLVSLVSWRWRQQLRTASPDTSEGVQQESLE-
                                                                                                                                                                                     121 ----NVFVPSSETPHASAPTWPPLKEDADSALPRHSVPVP 156
                                                                                                                                                                                                                                   141 IDAPQARVPQAEAP-ASAPSVAPAAPVEGRGIP-ISLPKP 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patin (Generican)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/445,640
FILING DATE: 22-MAY-1995
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/10558
FILING DATE: 20-DEC-1993
FILING DATE: 20-DEC-1993
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Godowski, Paul J.
APPLICANT: Mark, Melanie R.
APPLICANT: Bark, Melanie R.
APPLICANT: Barer, Kevin P.
APPLICANT: Barer, Kevin P.
APPLICANT: Barer, Will F.
TITLE OF INTENTION: Protein Tyrosine Kinases
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSE: Genentech, inc.
STREET: 460 Point San Bruno Blvd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Pred. No. 3.1; 19; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SSEE: Genentech, Inc.
1: 460 Point San Bruno Blvd
South San Francisco
: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 08/157563
FILING DATE: 23-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Application US/08445640 Patent No. 5709858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 85.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 30.2
Matches 39; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Hasak, Janet E. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-445-640-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: S
STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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96 SWR--WRQQLRTASPDTSEGVQQESLENVFVPS----SETPHASAPTWPPLKEDADSAL 148
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       44 PDTGHTSSLEPGTALOPO-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      38; Indels 33; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
9.4%; Score 85.5; DB 3; Length 913;
Best Local Similarity 30.2%; Pred. No. 3.1;
Matches 39; Conservative 19; Mismatches 38; Indels 33
                                                                                                                                                                                              APPLICANT: Godowski, Paul J.
APPLICANT: Godowski, Malanie R.
APPLICANT: Mark, Melanie R.
APPLICANT: Sadden, David T.
APPLICANT: Baker, Kevin P.
APPLICANT: Baron, Will F.
TITLE OF INVENTION: Protein Tyrosine Kinases
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3: 5.25 inch, 360 Kb floppy disk IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/170,558
FILING DATE: 20-DEC-1993
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/157563
FILING DATE: 22-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hasak, Janet E.
                                                                                                                          Sequence 4, Application US/08170558 Patent No. 6001621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 4, Application US/08447314; Patent No. 6087144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 85
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Hasak, Janet E. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  149 PRHSVP-VP 156
493 PPHSAPCVP 501
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SOFTWARE: Datin (Generatech)
SOFTWARE: Datin (Generatech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/445,461
FILING DATE: 22-MAY-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/170558
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/157563
FILING DATE: 23-MOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hasak, Janet E.
REGISTRATION NUMBER: 28,616
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
           Bruno Blvd
         South San Bru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3: Floppy dis
IBM PC compat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy di
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 149 PRHSVP-VP 156
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                                                 California
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 1155 A
CITY: New York
                                                                                            94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-336-343A-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44 PDTGHTSSLEPGTALQPQ-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ch
1 Similarity 30.2%; Pred. No. 3.1;
39; Conservative 19; Mismatches 38; Indels 33; Gaps
                                                                                                                                                                                                                                                    COMPUTER READBLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compactable
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447,314
FILING DATE: 22-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/170558
FILING DATE: 20-DEC-1993
PRIOR APPLICATION NUMBER: 08/157563
FILING DATE: 23-NOY-1993
ATPLICATION NUMBER: 08/157563
FILING DATE: 23-NOY-1993
ATTORNEY/AGENT INFORMATION:
APPLICANT: Scadden, David T.
APPLICANT: Baker, Kevin P.
APPLICANT: Baron, Will F.
TITLE OF INVENTION: Protein Tyrosine Kinases
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Protein Tyrosine Kinases NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
                                                                                   STREET: 460 Point San Bruno Blvd CITY: South San Francisco STATE: California ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5.08-445-461-4
Sequence 4, Application US/08445461
Patent No. 6096527
GENERAL INFORMATION:
APPLICANT: GOGOWSKI, Paul J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Hasak, Janet E. REGISTRATION NUMBER: 28,616
REFERENCE/DOCKET NUMBER: 85
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mark, Melanie R.
Scadden, David T
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Best Local Similarity
Matches 39; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
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APPLICANT:
APPLICANT:
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390 PPPTNFSSLE----LEPRGQPVAKPEGS----PTAILIG-CLVAIILLLLI--IALM 437
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96 SWR--WRQQLRTASPDTSEGVQQESLENVFVPS----SETPHASAPTWPPLKEDADSAL 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        44 PDTGHTSSLEPGTALOPQ-----EGSALRPDVALLVGAPALLGLILALTLVGLVSLV
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Sequence 2, Application US/08336343A
Sequence 2, Application US/08336343A
Settled No. 5677144
GENERAL INFORMATION:
APPLICANT: Ullich, Axel
APPLICANT: Alves, Frauke
TITLE OF INVENTION: CCK-2, A No. 5677144el Receptor Tyrosine Kinase
NUMBER OF SEQUENCES:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          38; Indels 33; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 3; Length 913;
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
9.4%; Score 85.5; DE
Best Local Similarity 30.2%; Pred. No. 3.1;
Matches 39; Conservative 19; Mismatches
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SOFTWARE:

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STREET: 3174 Porter Drive CITY: Palo Alto
                                                       1, Application US/09049672A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: CETTONE, MICHAEL C
REGISTRATION NUMBER: 39,132
REPERENCE/DOCKET NUMBER: PF-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-655-0555
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Best Local Similarity 25.3%
Matches 48; Conservative
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SEQUENCE CHARACTERISTICS:
LENGTH: 499 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE: 650-855-05:
TELEFAX: 650-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            158 TELGSTELVT 167
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CLONE: 021145
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APPLICANT: JOHNSON, ALEXANDER
APPLICANT: BRAND, BURKHARD R
ATTLE OF INVENTION: POLYNUCLECTIDE SEQUENCES FROM CANDIDA
TITLE OF INVENTION: ALBICANS ENCODING POLYPEPTIDES ASSOCIATED WITH FILAMENTOUS
TITLE OF INVENTION: GROWTH
FILE REFERENCE: 220022000700
CURRENT APPLICATION NUMBER: US/09/165,239A
CURRENT FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/068,065
PRIOR PILING DATE: 1997-12-18
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96 SWR--WROOLRTASPDISEGVOOESLENVFVPS----SETPHASAPTWPPLKEDADSAL 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      438 LWRLHWRRLLSKAE---RRVLEEELTVHLSVPGDTILINNRPGPREP--PPYQEPRPRGN 492
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       38; Indels 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 9.4%; Score 85.5; DB 1; Length 919; Best Local Similarity 30.2%; Pred. No. 3.1; Matches 39; Conservative 19; Mismatches 38; Indels 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9.2%; Score 83; DB 4; Length 750, 33.9%; Pred. No. 4.3;
PatentIn Release #1.0, Version #1.30
                                APPLICATION NUMBER: US/08/336,343A
FILING DATE: 08-NOV-1994
CLASSIPICATION: 435
ATTORNEY AGENT INFORMATION:
NAME: COTUZZI, LAUIR A.
REGISTRATION NUMBER: 7683-065
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PERNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 919 antino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Application US/09165239A
Patent No. 6344554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: PRT
; ORGANISM: Candida albicans
US-09-165-239A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                     , MOLECULE TYPE: protein US-08-336-343A-2
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Matches 21; Conserve
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270 HPRLSL--HRPALEDLILGSEANLTCTLTGLRDASGVTFTWTP---SSGKSAVQGPPERD 324
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20 TQCNQTECFDPLVRNCVSCELFH------TPDTGHTSSLEPGTALQPQEGSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     221 TQC-----LAGKSVTCHVKHYTNPSQDVTVPCPVPSTPPTPS--PSTPPTPSP-SCC
APPLICANT: Ial, Preeti
APPLICANT: Tang, Y. Tom
APPLICANT: Tang, Y. Tom
APPLICANT: Au-Young, Janice
APPLICANT: Au-Young, Janice
APPLICANT: Gordey, Neil C.
APPLICANT: Guegler, Karl J.
APPLICANT: Baughn, Mariah R.
TITLE OF INVENTION: HUMAN IMMUNE SYSTEM ASSOCIATED PROTEINS
NUMBER OF SEQUENCES: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.1%; Score 82.5; DB 3; Length 499; 5.3%; Pred. No. 2.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:

APPLICATION DATA:
APPLICATION UNMBER: US/09/049,672A
PILING DATE: HERBWITH
CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18; Mismatches
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